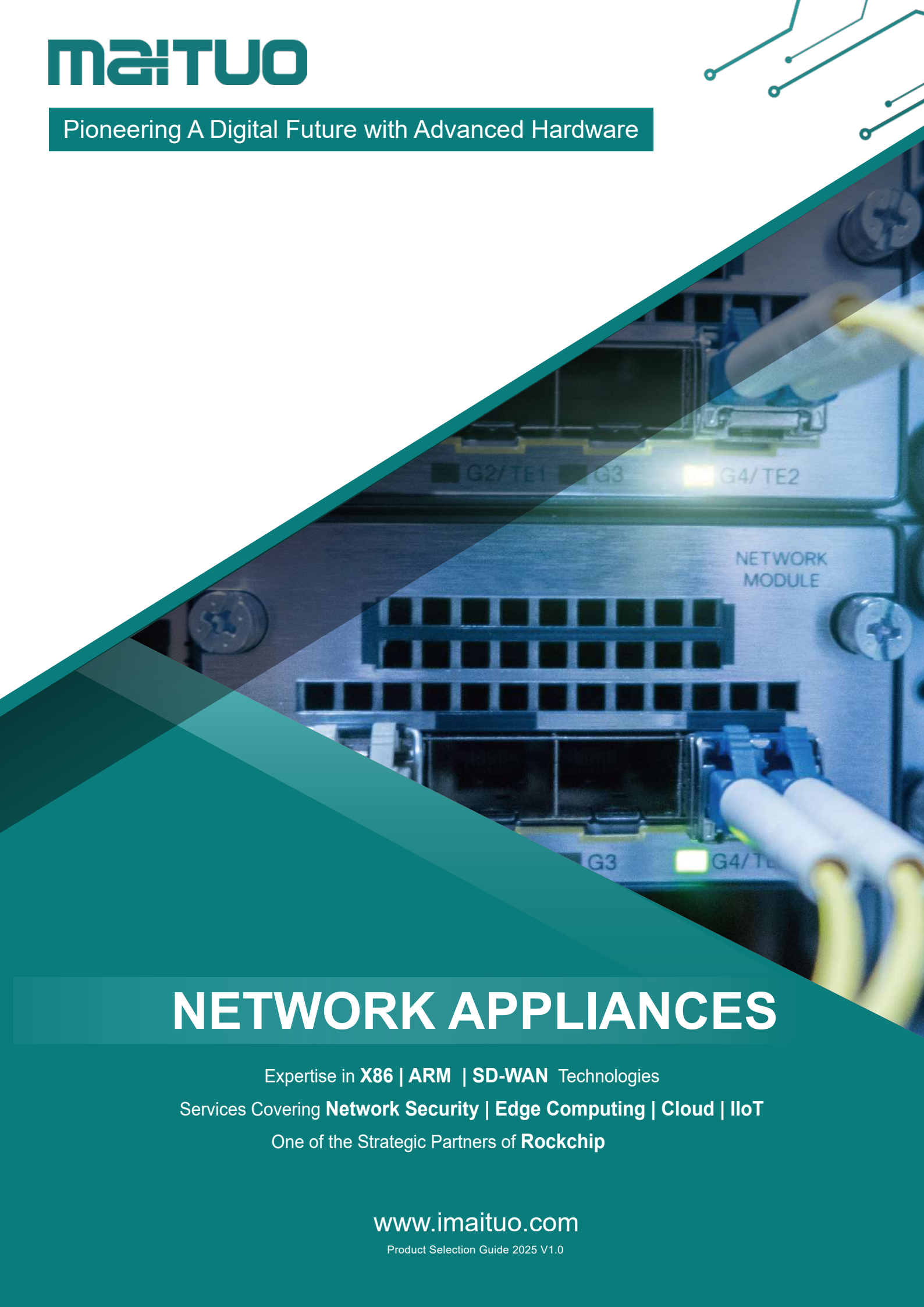




Pioneering A Digital Future with Advanced Hardware

The background of the slide features a close-up photograph of a network appliance's front panel. It shows several network ports with blue RJ45 connectors and yellow Ethernet cables plugged in. Some ports have small green indicator lights. Labels like 'G2/TE1', 'G3', 'G4/TE2', and 'NETWORK MODULE' are visible on the device. The image is partially covered by a large teal diagonal graphic that sweeps from the bottom left towards the top right.

NETWORK APPLIANCES

Expertise in **X86** | **ARM** | **SD-WAN** Technologies

Services Covering **Network Security** | **Edge Computing** | **Cloud** | **IIoT**

One of the Strategic Partners of **Rockchip**

www.imaituo.com

Product Selection Guide 2025 V1.0

About MAITUO

MAITUO was founded in 2012 and has since grown into an industry-leading provider of network appliances and solutions, with integrated R&D, production and sales capabilities. With expertise in core technologies such as X86, ARM, switching, wireless, SD-WAN networking, virtualization and edge computing, MAITUO is able to provide customers with personalized, comprehensive networking solution.

Empowering Human Digital Civilization with Digital Technology.

Why Choose MAITUO?



Robust Technical Strength

Over 40% of the workforce is dedicated to R&D.
25% of annual revenue are invested into R&D.



Complete Product Lineup

The product spans Network Appliances, Telecom Appliances, Enterprise Network Products.



20 Years of Industry Expertise

The core team has over **20 years** of experience, providing industry expertise and strategic insight.



Independent Innovation

All products are based on independent R&D, **and over 100** domestic and international patents have been filed.



High-standard Manufacturing

Over 1 million units have been shipped globally (until 2024), all delivered to high standards.



Extensive Customization Services

With a wide range of products and robust design capabilities, we deliver tailored solutions that drive client business success.

Honors & Qualifications

Since its establishment, MAITUO has earned numerous honors and certifications, including being recognized as a "National High-Tech Enterprise" and a "Specialized and Innovative SME." MAITUO has also obtained ISO9001 Quality Management System Certification, ISO14001 Environmental Management System Certification, ISO45001 Occupational Health and Safety Management System Certification, IECQ-QC080000 Hazardous Substance Process Management System Certification, CCC Product Certification, as well as multiple national invention patents.



R&D & Innovation

MAITUO advocates innovation and has an experienced R&D team that holds numerous product invention patents and software copyrights. The team has strong design capabilities, especially in EMC compatibility, intelligent hardware and software design, remote network management, hardware-based encryption, and handling of abnormal networking behavior.

All of MAITUO's products are self-developed and patented. As an original manufacturer, MAITUO transforms technology into cost-effective production, helping partners maximize their benefits.

MAITUO will deepen the R&D of network communication technology, create future-oriented products, and explore the integration of emerging technologies such as AI, EDGE, and 5G into future solutions, ensuring our customers stay at the forefront of innovation.

20 Years
Over

Senior R&D Team with Extensive
Industry Expertise

200
More than

R&D Achievements



Well-versed in the Core Principles of
Performance and Reliability Design
for Network Hardware Appliance

R&D of Motherboard



New Product Development Cycle: **Within 3 months**
Average Team Experience: **Over 17 years**

Solutions include

X86 | ARM | China's domestical
platforms NIC Wireless AP

R&D of Structures

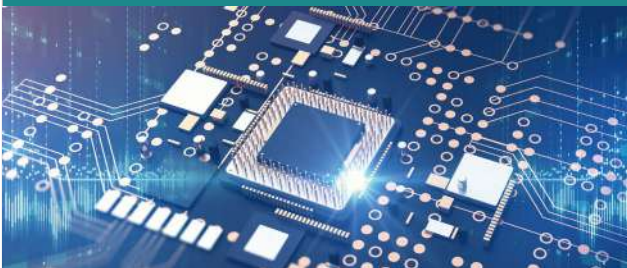


New Product Development Cycle: **Within 7 Days**
Average Team Experience: **Over 15 years**

Expertise in

Overall Layout | iD Modeling
Molds Engineering

R&D of Underlying Programming



New Product Development Cycle: **Within 15 Days**
Average Team Experience: **Over 15 years**

Expertise in

BIOS Firmware SDK

Complete Network Capabilities



Designs for various network ports:
1G to 100G Ethernet/Optical/Combo

Acceleration & optimization based on physical
hardware and underlying network performance

Underlying design based on DPDK and IPSEC

Manufacturing

Intelligent Manufacturing

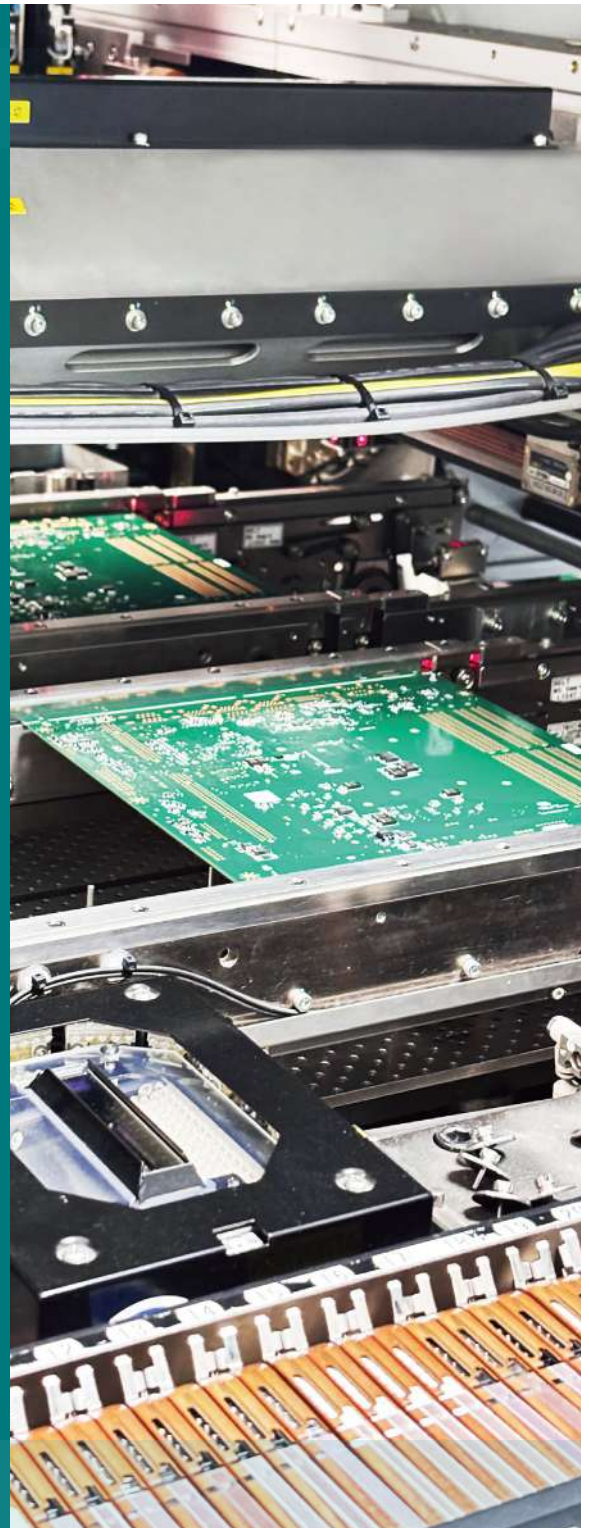
- An advanced and fully equipped production line
- Annual capacity of hundreds of thousands
- 13 SMT lines, 5 motherboard test lines, 2 assembly lines, 2 testing lines, 2 automated packaging lines, and an intelligent burn-in room

Professional Test System

- Online 3D solder paste inspection (SPI) systems
- Automated optical inspection (AOI) machines
- X-RAY non-destructive testing (NDT) machines
- Automated flying probe testers
- DIP optical inspection machines
- Furnace temperature sensors
- Stencil tension meters

Experienced Production Personnel

- Experienced and professional production technicians and managers
- Comprehensive quality management system covering all sections





Quality Control

1 Annual Failure Rate: Less than 0.2%

Based on recent shipment data, the annual return rate is less than 0.2%.

2 Comprehensive R&D System

MAITUO implements the RDPM process to control the R&D workflow, conducting rigorous testing such as functional tests, environmental tests, signal quality tests, network stress & throughput tests, EMC baseline tests, and simulated transport tests.

3 MES Real-time Control

MAITUO's self-developed MES system ensures real-time monitoring and strict control over every step of the production process, with full traceability.

4 High-Quality Materials

MAITUO uses top-tier materials for each product. All materials undergo a series of tests and verifications, including performance, compatibility, and reliability checks. MAITUO also audits supplier qualifications to ensure material supply and quality control.

5 Management System Certifications

MAITUO has obtained the following management system certifications: ISO 9001:2015 , ISO-14001:2015 , ISO-45001:2018 , ISO 27001 , ISO-50001-2018 , QC 080000

6 Product Certifications

All MAITUO products meet the certification standards required in the countries and regions where they are sold, including the FCC (USA), CE (EU), ANATEL (Brazil), CCC (China), and others. Additionally, all products comply with RoHS and other environmental regulations. For specific industries and applications, MAITUO can collaborate with customers to meet relevant certification requirements.



Environmental Protection

All employees of MAITUO advocate and implement green, energy-saving, and eco-friendly principles, alongside the execution of a 6S management system. Moving forward, we will continue to improve our environmental management policies, striving to create a better environment for humanity.



R&D Control

Adopting eco-friendly designs to create innovative green products.

Quality Control

Promoting the establishment of environmental management systems and ensuring product verification.

Production &Procurement

Adopting eco-friendly designs to create innovative green products.

Operations Management

Implementing green management processes, adopting paperless operations, and reduce business travel by working online.

Global Service

MAITUO has established a global service and support system, with a professional service team ready to provide comprehensive support, striving to create more value for customers.

In addition, MAITUO has launched an online support platform, featuring complete product documentation, technical resources, code hosting, and relevant media/video usage files. The platform also offers real-time online technical support.

Currently, MAITUO is building a logistics and service network to serve global customers. In the future, we plan to set up primary finished goods and spare parts warehouses in Brazil, India, Dubai, Singapore, Indonesia, Malaysia, Vietnam, and parts of Europe, along with secondary spare parts centers in key regions, to ensure timely product delivery and after-sales services for global customers.



After-Sales Support

3-Year Warranty
1-2 Year Extended Warranties
Lifetime Maintenance

Online Services

Access product manuals, tools, drivers, and official SDKs via the MAITUO website and Redmine system.

Instant Communication

Connect with MAITUO anytime through website customer service, Facebook, LinkedIn, and other online platforms.

Global Partners

Based on the strong partnerships with upstream collaborators, MAITUO can offer the latest technologies and solutions, ensuring the leading edge of the product technology.

Chips



Ecosystem



Firmware



Products & Services

Widely Applied Across Industries



MAITUO focuses on the field of network communication and has formed three major product lines:



Network Appliances

Desktop Appliances

Rackmount Appliances

Industrial Appliances

Whitebox Appliances



Telecom Appliances

SD-WAN uCPE vCPE

NFV Servers

SDN Switches



Network Adapters&Modules

Network Adapters

Optical Modules

Fiber Optic Cables



Product Specifications Overview

- Network Appliances
- Telecom Appliances
- Network Adapters&Modules



Note: The product specifications listed herein are subject to change without prior notice as the company reserves the right to make updates and improvements at its discretion.

I. Network Appliances

Desktop Appliances



Type		NSC-2133	NSC-2106	NSC-2K13	NSC-2M03
Product form		Desktop	Desktop	Desktop	Desktop
Platform	Processor	ARM Rockchip RK3568 Quad-Core	ARM Rockchip RK3568 Quad-Core	ARM Rockchip RK3568 Quad-Core	ARM Rockchip RK3568 Quad-Core
	Base Frequency	2.0GHz	2.0GHz	2.0GHz	2.0GHz
	Chipsets	SoC	SoC	SoC	SoC
	BIOS	UBOOT	UBOOT	UBOOT	UBOOT
RAM	Type	DDR4 2400 MHz	DDR4 2400 MHz	DDR4 2400 MHz	DDR4 2400 MHz
	Memory Slots	N/A	N/A	N/A	N/A
	Max. Capacity	8GB	8GB	4GB	8GB
	ECC/Non ECC	Non ECC	Non ECC	Non ECC	Non ECC
Network	Ports	5 x GbE RJ45	3 x GbE RJ45	4 x GbE RJ45	5 x GbE RJ45, 2 x Combo
	Controller	2 x RTL8211FS, 3 x RTL8111H	2 x RTL8211FS, 1 x RTL8111H	2 x RTL8211F, 2 x RTL8111H	5 x RTL8111H, 2 x RTL 8211FS
	Bypass	2 pairs GEN3 (optional)	N/A	N/A	2 pairs (optional)
Expansion	MAITUO NIC Module	N/A	N/A	N/A	N/A
	PCIe Module	N/A	N/A	N/A	N/A
	M.2	1x M.2 for 4G /5G	1 x M.2 for 4G /5G	2 x M.2 for 4G /5G	1 xM.2 for 4G /5G
	MiniPCle	N/A	N/A	1 x miniPCle	1 x miniPCle
	WiFi	N/A	N/A	Optional	Optional
	4G/5G	Optional	Optional	Optional	Optional
Storage	HDD	N/A	N/A	N/A	N/A
	Onboard Storage	mSATA/eMMC/TF	eMMC/M.2(NVMe)/TF	mSATA/eMMC/TF	mSATA/eMMC/TF
I/O	Console	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
	USB	Upper: USB2.0 Lower: USB2.0 OTG	Upper: USB2.0 Lower: USB2.0 OTG	Upper: USB2.0 Lower: USB2.0 OTG	Upper: USB2.0 Lower: USB2.0
	GPIO	4	4	N/A	2
	Indicator	Refer to the details page	Refer to the details page	Refer to the details page	Refer to the details page
	Button	1 x Custom Button	1 x Custom Button	1 x Custom Button	1 x Custom Button
	Power Switch	N/A	N/A	N/A	N/A
Display		1x HDMI (optional)	1x HDMI (optional)	N/A	1x HDMI (optional)
Power supply	Type	Power adapter	Power adapter	Power adapter	Power adapter
	Power	24W	24W	24W	24W
	Input Voltage	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz
Cooling		CPU active cooler	CPU active cooler	CPU active cooler	CPU active cooler
Environment	Operating Temperature	0℃~40℃	0℃~40℃	0℃~40℃	0℃~40℃
	Storage Temperature	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃
	Storage Humidity	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing
Dimension	W x D x H	220 x 140 x 36 mm	210 x140 x 30 mm	198 x 109 x 32mm	300 x 164.5 x 44mm
TPM		/	/	Support	/
OS		Android, Linux	Android, Linux	Android, Linux	Android, Linux
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC
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I. Network Appliances

Desktop Appliances



Type		NSC-2903	NSC-2003	NSC-6503	NSC-9103
Product form		Desktop	Desktop	Desktop	Desktop
Platform	Processor	ARM Rockchip RK3568 Quad-Core	Intel® J1800/J1900 2/4 Cores	ARM Phytium E2000Q Quad-core	Intel® Alder Lake-N N100 Quad-Core
	Base Frequency	2.0GHz	2.41GHz/2.0GHz	2.0GHz	1.8GHz
	Chipsets	SoC	SoC	SoC	SoC
	BIOS	UBOOT	UEFI	UEFI	UEFI
RAM	Type	DDR4 2400 MHz	DDR3/3L 1333/1600MHz	DDR4 2400MHz	DDR5 4800MHz
	Memory Slots	N/A	DDR3 SO-DIMM	N/A	DDR5 SO-DIMM
	Max. Capacity	8GB	8GB	64GB	16GB
	ECC/Non ECC	Non ECC	Non ECC	ECC/Non ECC (optional)	Non ECC
Network	Ports	5 x GbE RJ45, 1 x Combo	6 x GbE RJ45	8 x GbE RJ45 + 2 x Combo	6 x GbE RJ45
	Controller	4 x RTL8111H, 2 x RTL8211FS	6 x I210-AT	6 x RTL8111H, 4x RTL8211	6 x I210-AT
	Bypass	2 pairs GEN3 (optional)	1 pair GEN3 (optional)	1 pair GEN3 (optional)	2 pairs GEN3 (optional)
Expansion	MAITUO NIC Module	N/A	N/A	N/A	N/A
	PCIe Module	N/A	N/A	N/A	N/A
	M.2	1 x M.2 for 4G /5G	N/A	1 x M.2 for 4G/5G	2 x M.2 for 4G/5G
	MiniPCIe	1 x miniPCIe	1 x miniPCIe	1 x miniPCIe	1 x miniPCIe
	WiFi	Optional	Optional	N/A	Optional
	4G/5G	Optional	Optional	Optional	Optional
Storage	HDD	N/A	1 x 2.5"SATA HDD	N/A	N/A
	Onboard Storage	mSATA/eMMC/TF	mSATA/CF	eMMC/TF	mSATA/eMMC
I/O	Console	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
	USB	Upper: USB2.0 Lower: USB2.0	Upper: USB2.0 Lower: USB2.0	Upper: USB2.0 Lower: USB2.0	Upper: USB2.0 Lower: USB2.0
	GPIO	4	4	8	8
	Indicator	Refer to the details page	Refer to the details page	Refer to the details page	Refer to the details page
	Button	1 x Custom Button	1 x Custom Button	1 x Custom Button	1 x Custom Button
	Power Switch	N/A	1 x Power Switch	N/A	N/A
Display		1x HDMI (optional)	1 x VGA (optional)	1 x VGA (optional)	1 x HDMI, 1 x VGA (optional)
Power supply	Type	Power Adapter	Single Power Supply	Power Adapter	Power Adapter
	Power	24W	65W	60W	60W
	Input Voltage	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz
Cooling		CPU active cooler	1 x system fan	CPU active cooler	1 x system fan
Environment	Operating Temperature	0℃~40℃	0℃~40℃	0℃~40℃	0℃~40℃
	Storage Temperature	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃
	Storage Humidity	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing
Dimension	W x D x H	210 x 140 x 30 mm	288 x 164 x 44 mm	230 x 176 x 44 mm	280 x 175 x 44 mm
TPM		/	/	/	Support
OS		Android, Linux	Linux, FreeBSD 9.2 or later, and Windows 7 or later	Kylin OS, Ubuntu	Linux, FreeBSD 9.2 or later, and Windows 7 or
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC
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I. Network Appliances

Desktop Appliances



Type		NSC-5012	NSC-5014	NSC-7503
Product form		Desktop	Desktop	Desktop
Platform	Processor	Intel Atom® C3000 Series	Intel Atom® C3000 Series	Intel Atom® C3000 Series
	Base Frequency	Refer to the specific CPU model	Refer to the specific CPU model	Refer to the specific CPU model
	Chipsets	SoC	SoC	SoC
	BIOS	UEFI	UEFI	UEFI
RAM	Type	DDR4 2133/2400 MHz	DDR4 2133/2400 MHz	DDR4 2133/2400 MHz
	Memory Slots	DDR4 SO-DIMM	DDR4 SO-DIMM	DDR4 SO-DIMM
	Max. Capacity	64GB	64GB	32GB
	ECC/Non ECC	ECC/Non ECC	ECC/Non ECC	ECC/Non ECC (optional)
Network	Ports	2 x GbE RJ45, 4 x 2.5GbE RJ45, 2 x Combo	2 x GbE RJ45, 4 x 2.5GbE RJ45, 2 x Combo	6 x GbE RJ45 or 4 x GbE RJ45 + 2 x SFP
	Controller	2 x 88E1514, 4 x I226-V, 1 x 88E1543	2 x 88E1514, 4 x I226-V, 1 x 88E1543	2 x I210-AT/I210-AS, 1 x 88E1543
	Bypass	3 pairs GEN3 (optional)	3 pairs GEN3 (optional)	2 pairs GEN3 (optional)
Expansion	MAITUO NIC Module	N/A	N/A	N/A
	PCIe Module	N/A	N/A	N/A
	M.2	1 x M.2 for 4G/5G 1 x M.2 for WiFi	1 x M.2 for 4G/5G 1 x M.2 for WiFi	2 x M.2 for 4G/5G
	MiniPCIe	1 x miniPCIe	1 x miniPCIe	1 x miniPCIe
	WiFi	Optional	Optional	Optional
	4G/5G	Optional	Optional	Optional
Storage	HDD	1 x 2.5" SATA HDD	1 x 2.5" SATA HDD	N/A
	Onboard Storage	eMMC/mSATA	eMMC/mSATA	M.2 (SATA) /eMMC
I/O	Console	1 x RJ45	1 x RJ45	1 x RJ45
	USB	Upper: USB2.0 Lower: USB2.0	Upper: USB2.0 Lower: USB2.0	Upper: USB3.0 Lower: USB3.0
	GPIO	8	8	4
	Indicator	Refer to the details page	Refer to the details page	Refer to the details page
	Button	1 x Custom Button	1 x Custom Button	1 x Custom Button
	Power Switch	1 x Power Switch	1 x Power Switch	N/A
Display		N/A	N/A	N/A
Power supply	Type	Single Power Supply	Power Adapter	Power Adapter
	Power	65W	60W	60W
	Input Voltage	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz
Cooling		1 x system fan	1 x system fan	CPU active cooler
Environment	Operating Temperature	0℃~40℃	0℃~40℃	0℃~40℃
	Storage Temperature	-40℃~70℃	-40℃~70℃	-40℃~70℃
	Storage Humidity	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing
Dimension	W x D x H	310 x 203 x 44 mm	300 x 203 x 44 mm	240 x 200 x 44 mm
TPM		/	/	Support
OS		Linux, FreeBSD 9.2 or later, and Windows 7 or later	Linux, FreeBSD 9.2 or later, and Windows 7 or later	Linux, FreeBSD 9.2 or later, and Windows 7 or later
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC
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I. Network Appliances

Rackmount Appliances



Type		NSC-2101	NSC-2A11	NSC-2C01	NSC-2E01
Product form		1U Rackmount	1U Rackmount	1U Rackmount	1U Rackmount
Platform	Processor	ARM Rockchip RK3568 Quad-Core	ARM Rockchip RK3568 Quad-Core	ARM Rockchip RK3568 Quad-Core	ARM Rockchip RK3568 Quad-Core
	Base Frequency	2.0GHz	2.0GHz	2.0GHz	2.0GHz
	Chipsets	SoC	SoC	SoC	SoC
	BIOS	UBOOT	UBOOT	UBOOT	UBOOT
RAM	Type	DDR4 2400 MHz	DDR4 2400 MHz	DDR4 2400 MHz	DDR4 2400 MHz
	Memory Slots	N/A	N/A	N/A	N/A
	Max. Capacity	8GB	8GB	8GB	8GB
	ECC/Non ECC	Non ECC	Non ECC	Non ECC	Non ECC
Network	Ports	5 x GbE RJ45	3 x GbE RJ45, 2 x Combo	8 x GbE RJ45, 2 x Combo	4 x GbE RJ45, 2 x Combo
	Controller	2 x YT8531SC, 3 x RTL8111H	3 x RTL8111H, 2 x YT8531SC	8 x RTL8111H, 2 x YT8531SC/RTL8211FS	4 x I210AT, 2 x RTL8211FS
	Bypass	2 pairs GEN3 (optional)	1pair GEN3 (optional)	4 pairs GEN3 (optional)	2 pairs GEN3 (optional)
Expansion	MAITUO NIC Module	N/A	N/A	N/A	N/A
	PCIe Module	Built-in PCIe expansion (optional)	N/A	Built-in PCIe expansion (optional)	N/A
	M.2	1 x M.2 for 4G /5G	1 x M.2 for 4G /5G	1 x M.2 for 4G/5G (Dual-SIM supported)	N/A
	MiniPCIe	1 x miniPCIe (optional)	1 x miniPCIe (optional)	1 x miniPCIe	1 x miniPCIe
	WiFi	Optional	Optional	Optional	Optional
	4G/5G	Optional	Optional	Optional	Optional
Storage	HDD	1 x 2.5"/3.5"SATA HDD	1 x 2.5"/3.5"SATA HDD	1 x 2.5"/3.5"SATA HDD	1 x 2.5"/3.5"SATA HDD
	Onboard Storage	mSATA/eMMC/TF	mSATA/eMMC/TF	mSATA/eMMC/TF	mSATA/eMMC/TF
I/O	Console	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
	USB	Upper: USB2.0 Lower: USB2.0 OTG	Upper: USB2.0 Lower: USB2.0 OTG	Upper: USB2.0 Lower: USB2.0 OTG	Upper: USB2.0 Lower: USB2.0 OTG
	GPIO	4	6	2	6
	Indicator	Refer to the details page	Refer to the details page	Refer to the details page	Refer to the details page
	Button	1 x Custom Button	1 x Custom Button	1 x Custom Button	1 x Custom Button
	Power Switch	1 x Power Switch	1 x Power Switch	1 x Power Switch	1 x Power Switch
Display		N/A	N/A	N/A	N/A
Power supply	Type	Single Power Supply	Single Power Supply	Single, Dual and Redundant Power Supply (optional)	Single, Dual and Redundant Power Supply (optional)
	Power	25W	25W	25W(standard, single power supply)	25W(standard, single power supply)
	Input Voltage	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz
Cooling		CPU active cooler	1 x system fan	1 x system fan	1 x system fan
Environment	Operating Temperature	0℃~40℃	0℃~40℃	0℃~40℃	0℃~40℃
	Storage Temperature	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃
	Storage Humidity	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing
Dimension	W x D x H	430 x 300 x 44 mm	430 x 300 x 44 mm	430 x 300 x 44 mm	430 x 300 x 44 mm
OS		Android, Linux	Android, Linux	Android, Linux	Android, Linux
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC
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I. Network Appliances

Rackmount Appliances



Type		NSC-2N01	NSC-2601	NSC-2H01	NSC-2H12
Product form		1U Rackmount	1U Rackmount	1U Rackmount	2U Rackmount GAP Appliance
Platform	Processor	ARM Rockchip RK3568 Quad-Core	ARM Rockchip RK3568 Quad-Core	ARM Rockchip RK3568 Quad-Core	ARM Rockchip RK3568 Quad-Core
	Base Frequency	2.0GHz	2.0GHz	2.0GHz	2.0GHz
	Chipsets	SoC	SoC	SoC	SoC
	BIOS	UBOOT	UBOOT	UBOOT	UBOOT
RAM	Type	DDR4 2400 MHz	DDR4 2400 MHz	DDR4 2400 MHz	DDR4 2400 MHz
	Memory Slots	N/A	N/A	N/A	N/A
	Max. Capacity	8GB	8GB	8GB	8GB
	ECC/Non ECC	Non ECC	Non ECC	Non ECC	Non ECC
Network	Ports	10 x GbE RJ45, 8 x SFP, 4 x 10G SFP+	1 x GbE RJ45, 8 x GbE Switch Ports, 2 x GbE Combo Ports	6 x GbE RJ45, 2 x SFP / 8 x GbE RJ45	6 x GbE RJ45, 2 x SFP / 8 x GbE RJ45
	Controller	2 x RK3568 MAC + RTL8211F PHY 8 x NF5180 MAC + NF1008 PHY 8 x NF5180 MAC + YT8614QC PHY 4 x NF5180 MAC	1 x YT8531C 2 x YT9215 2 x YT8531SC	6 x RTL8111H, 2 x RTL8211FS	6 x RTL8111H, 2 x RTL8211FS
	Bypass	4 pairs GEN3 (optional)	2 pairs GEN3 (optional)	2pair GEN3 (optional)	2 pairs GEN3 (optional)
Expansion	MAITUO NIC Module	N/A	N/A	N/A	N/A
	PCIe Module	N/A	N/A	Built-in PCIe expansion (optional)	Built-in PCIe expansion (optional)
	M.2	1 x M.2 for 4G /5G	1 x M.2 for 4G/5G	N/A	N/A
	MiniPCle	1 x miniPCle	1 x miniPCle	N/A	N/A
	WiFi	Optional	Optional	N/A	N/A
	4G/5G	Optional	Optional	N/A	N/A
Storage	HDD	1 x 2.5"/3.5"SATA HDD	1 x 2.5"/3.5"SATA HDD	1 x 2.5"/3.5"SATA HDD	2 x 2.5"/3.5"SATA HDD
	Onboard Storage	eMMC/mSATA/TF	mSATA/eMMC/TF	mSATA/eMMC/TF	mSATA/eMMC/TF
I/O	Console	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
	USB	Upper: USB2.0 Lower: USB2.0 OTG	Upper: USB2.0 Lower: USB2.0 OTG	Upper: USB2.0 Lower: USB3.0 OTG	Upper: USB2.0 Lower: USB3.0 OTG
	GPIO	4	4	4	4
	Indicator	Refer to the details page	Refer to the details page	Refer to the details page	Refer to the details page
	Button	1 x Custom Button	1 x Custom Button	1 x Custom Button	N/A
	Power Switch	1 x Power Switch	1 x Power Switch	1 x Power Switch	1 x Power Switch
Display		N/A	N/A	N/A	1 x LCM (optional)
Power supply	Type	Single/Dual Power Supply (optional)	Single/Dual Power Supply (optional)	Single, Dual and Redundant Power Supply (optional)	Single, Dual and Redundant Power Supply (optional)
	Power	65W(standard, single power supply)	25W(standard, single power supply)	25W(standard, single power supply)	100W(standard, single power supply)
	Input Voltage	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz
Cooling		1 x system fan	1 x system fan	1 x system fan	2 x system fans
Environment	Operating Temperature	0℃~40℃	0℃~40℃	0℃~40℃	0℃~40℃
	Storage Temperature	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃
	Storage Humidity	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing
Dimension	W x D x H	430 x 300 x 44 mm	430 x 300 x 44 mm	430 x 300 x 44 mm	430 x 450 x 88 mm
OS		Android, Linux	Android, Linux	Android, Linux	Android, Linux
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC
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I. Network Appliances

Rackmount Appliances



Type		NSC-2L01	NSC-9111	NSC-6401	NSC-2019
Product form		1U Rackmount	1U Rackmount	1U Rackmount	1U Rackmount
Platform	Processor	ARM Rockchip RK3568 Quad-Core	Intel Alder Lake-N N100 Quad-Core	ARM Phytium E2000Q Quad-Core	Intel® Bay Trail J1800/J1900(2/4cores)
	Base Frequency	2.0GHz	1.8GHz	2.0GHz	2.41GHz/2.0GHz
	Chipsets	SoC	SoC	SoC	SoC
	BIOS	UBOOT	UEFI	UEFI	UEFI
RAM	Type	DDR4 2400 MHz	DDR5 4800MHz	DDR4 2400 MT/S	DDR3/3L 1333/1600MHz
	Memory Slots	N/A	DDR5 SO-DIMM	N/A	1 x DDR3/3L SO-DIMM
	Max. Capacity	8GB	16GB	64GB	8GB
	ECC/Non ECC	Non ECC	Non ECC	ECC/Non ECC	Non ECC
Network	Ports	2 x GbE RJ45	6 x GbE RJ45	6 x GbERJ45, 2 x Combo, 2 x 10GbE SFP+	6 x GbE RJ45
	Controller	2 x RTL 8211FS	6 x Intel® I210-AT	2 x RTL8111H 4 x WX1860A4 2 x YT8531SC SFP+1~SFP+2: Direct from CPU	6 x Intel® I210-AT
	Bypass	N/A	2 pairs GEN3 (optional)	2 pairs GEN3 (optional)	1pair GEN3 (optional)
Expansion	MAITUO NIC Module	N/A	N/A	N/A	1 x NIC Network expansion module
	PCIe Module	N/A	N/A	Built-in PCIe expansion (optional)	N/A
	M.2	1 x M.2 for4G /5G	2 x M.2 for 4G/5G	1 x M.2 for 4G/5G	N/A
	MiniPCle	N/A	1 x miniPCle	N/A	1 x miniPCle
	WiFi	N/A	Optional	N/A	N/A
	4G/5G	Optional	Optional	Optional	N/A
Storage	HDD	1 x 2.5"/3.5"SATA HDD	1 x 2.5"/3.5"SATA HDD	1 x 2.5"/3.5"SATA HDD	1 x 2.5"/3.5"SATA HDD
	Onboard Storage	mSATA/eMMC/TF	mSATA/eMMC	mSATA/eMMC/TF	mSATA/CF
I/O	Console	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
	USB	4 x USB3.0, 6 x USB2.0	Upper: USB2.0 Lower: USB2.0	Upper: USB2.0 Lower: USB2.0	Upper: USB2.0 Lower: USB2.0
	GPIO	2	8	8	4
	Indicator	Refer to the details page	Refer to the details page	Refer to the details page	Refer to the details page
	Button	1 x Custom Button	1 x Custom Button	1 x Reset Button	1 x Custom Button
	Power Switch	1 x Power Switch	N/A	1 x Power Switch	1 x Power Switch
Display		N/A	1 x HDMI, 1 x VGA (optional)	N/A	1 x VGA (optional)
Power supply	Type	Single, Dual and Redundant Power Supply (optional)	Single/Dual Power Supply (optional)	Single Power Supply	Single/Dual Power Supply (optional)
	Power	25W(standard, single power supply)	65W(standard, single power supply)	65W	65W(standard, single power supply)
	Input Voltage	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz
Cooling		1 x system fan	1 x system fan	1 x system fan	1 x system fan
Environment	Operating Temperature	0℃~40℃	0℃~40℃	0℃~40℃	0℃~40℃
	Storage Temperature	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃
	Storage Humidity	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing
Dimension	W x D x H	430 x 300 x 44 mm	430 x 300 x 44 mm	440 x 300 x 44 mm	430 x 360 x 44 mm
TPM		/	Support	/	/
OS		Android, Linux	Linux, FreeBSD9.2 or later, Windows7 or later	Kylin OS, Ubuntu	Linux, FreeBSD9.2 or later, Windows7 or later
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC
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I. Network Appliances

Rackmount Appliances



Type		NSC-9201	NSC-9202	NSC-9211	NSC-5001
Product form		1U Rackmount GAP Appliance	2U Rackmount GAP Appliance	1U Rackmount GAP Appliance	1U Rackmount
Platform	Processor	Intel® Bay Trail J1800/J1900(2/4cores)	Intel® Bay Trail J1800/J1900(2/4cores)	Intel® Bay Trail J1800/J1900(2/4cores)	Intel Atom® C3000 Series
	Base Frequency	2.41GHz/2.0GHz	2.41GHz/2.0GHz	2.41GHz/2.0GHz	Refer to the specific CPU model
	Chipsets	SoC	SoC	SoC	SoC
	BIOS	UEFI	UEFI	UEFI	UEFI
RAM	Type	DDR3/3L 1333/1600MHz	DDR3/3L 1333/1600MHz	DDR3/3L 1333/1600MHz	DDR4 2133/2400 MHz
	Memory Slots	1 x DDR3/3L SO-DIMM	1 x DDR3/3L SO-DIMM	1 x DDR3/3L SO-DIMM	2 x DDR4 DIMMs
	Max. Capacity	8GB	8GB	8GB	64GB
	ECC/Non ECC	Non ECC	Non ECC	Non ECC	ECC/Non ECC
Network	Ports	6 x GbE RJ45	6 x GbE RJ45	2 x GbE RJ45	6 x GbE RJ45, 2 x GbE SFP, 2 x 10GbE SFP+
	Controller	6 x RTL8111H	6 x RTL8111H	2 x RTL8111H	2 x Intel® I210-AT, 1 x Intel® I350-AM4, 1 x Marvell 1543
	Bypass	2 pairs GEN3 (optional)	2 pairs GEN3 (optional)	N/A	3 pairs GEN3 (optional)
Expansion	MAITUO NIC Module	N/A	N/A	N/A	1 x NIC Network expansion module
	PCIe Module	1 x PCIe 4X (x1) expansion module	1 x PCIe 4X (x1) expansion module	N/A	N/A
	M.2	N/A	N/A	N/A	N/A
	MiniPCIe	N/A	N/A	N/A	1 x miniPCIe
	WiFi	N/A	N/A	N/A	N/A
	4G/5G	N/A	N/A	N/A	N/A
Storage	HDD	1 x 2.5"/3.5"SATA HDD	1 x 2.5"/3.5"SATA HDD	N/A	1 x 2.5"/3.5"SATA HDD
	Onboard Storage	mSATA	mSATA	mSATA	mSATA/CF/eMMC
I/O	Console	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
	USB	Upper: USB2.0 Lower: USB3.0	Upper: USB2.0 Lower: USB3.0	Upper: USB2.0 Lower: USB3.0	Upper: USB2.0 Lower: USB2.0
	GPIO	8	8	8	N/A
	Indicator	Refer to the details page	Refer to the details page	Refer to the details page	Refer to the details page
	Button	1 x Custom Button	1 x Custom Button	1 x Custom Button	1 x Custom Button
	Power Switch	1 x Power Switch	1 x Power Switch	1 x Power Switch	1 x Power Switch
Display		1 x VGA	1 x VGA	1 x VGA	None (Expandable)
Power supply	Type	Single/Dual Power Supply/DC 12V(optional)	Single/Dual/Redundant Power Supply (optional)	Single/DualPower Supply (optional)	Single/Dual/Redundant Power Supply (optional)
	Power	100W(standard, single power supply)	100W(standard, single power supply)	100W(standard, single power supply)	65W(standard, single power supply)
	Input Voltage	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz
Cooling		2 x system fans	2 x system fans	2 x system fans	2 x system fans
Environment	Operating Temperature	0℃~40℃	0℃~40℃	0℃~40℃	0℃~40℃
	Storage Temperature	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃
	Storage Humidity	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing
Dimension	W x D x H	430 x 450 x 44.5 mm	430 x 450 x 88 mm	430 x 300 x 44.5 mm	440 x 450 x 44 mm
OS		Linux, FreeBSD9.2 or later, Windows7 or later	Linux, FreeBSD9.2 or later, Windows7 or later	Linux, FreeBSD9.2 or later, Windows7 or later	Linux, FreeBSD9.2 or later, Windows7 or later
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC
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I. Network Appliances

Rackmount Appliances



Type		NSC-5013	NSC-7401	NSC-5016	NSC-7701
Product form		1U Rackmount	1U Rackmount	1U Rackmount	1U Rackmount
Platform	Processor	Intel Atom® C3000 Series	Intel Atom® C3000 Series	Intel Atom® C3000 Series	Intel Atom® C3000 Series
	Base Frequency	Refer to the specific CPU model	Refer to the specific CPU model	Refer to the specific CPU model	Refer to the specific CPU model
	Chipsets	SoC	SoC	SoC	SoC
	BIOS	UEFI	UEFI	UEFI	UEFI
RAM	Type	DDR4 2133/2400 MHz	DDR4 2133/2400 MHz	DDR4 2133/2400 MHz	DDR4 2133/2400 MHz
	Memory Slots	2 x DDR4 SO-DIMM	2 x DDR4 DIMMs	2 x DDR4 DIMMs	2 x DDR4 DIMMs
	Max. Capacity	64GB	64GB	64GB	64GB
	ECC/Non ECC	ECC/Non ECC	ECC/Non ECC	ECC/Non ECC	ECC/Non ECC
Network	Ports	2 x GbE RJ45, 4 x 2.5GbE RJ45, 2 x Combo	6 x GbE RJ45, 4 x 10GbE SFP+	8 x GbE RJ45, 2 x SFP, 2 x 10GbE SFP+	6 x GbE RJ45, 2 x 10GbE SFP+
	Controller	1 x Marvell 1514, 4 x Intel® I226-V, 1 x Marvell 1543	2 x Intel® I210-AT, 1 x Intel® I350-AM4	2 x WX1860A4, 1x Marvell 1543	1x Marvell 88E1543, 1 x WX1860A4
	Bypass	3 pairs GEN3 (optional)	3 pairs GEN3 (optional)	3 pairs GEN3 (optional)	3 pairs GEN3 (optional)
Expansion	MAITUO NIC Module	1 x NIC Network expansion module	2 x NIC network expansion modules	1 x NIC Network expansion module	1 x NIC Network expansion module
	PCIe Module	N/A	N/A	N/A	1 x PCIe X8 expansion module
	M.2	1 x M.2 for 4G/5G 1 x M.2 for WiFi	1 x M.2 for 4G/5G	1 x M.2 for 4G/5G 1 x M.2 for WiFi	N/A
	MiniPCIe	1 x miniPCIe	N/A	1 x miniPCIe	1 x miniPCIe
	WiFi	Optional	N/A	Optional	Optional
	4G/5G	Optional	Optional	Optional	N/A
Storage	HDD	1 x 2.5"/3.5"SATA HDD	1 x 2.5"/3.5"SATA HDD	1 x 2.5"/3.5"SATA HDD	1 x 2.5"/3.5"SATA HDD
	Onboard Storage	mSATA/eMMC	eMMC/mSATA	mSATA/CF/eMMC	mSATA/eMMC
I/O	Console	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
	USB	Upper: USB2.0 Lower: USB2.0	Upper: USB2.0 Lower: USB2.0	Upper: USB2.0 Lower: USB2.0	Upper: USB2.0 Lower: USB3.0
	GPIO	8	N/A	N/A	4
	Indicator	Refer to the details page	Refer to the details page	Refer to the details page	Refer to the details page
	Button	1 x Custom Button	N/A	N/A	1 x Custom Button
	Power Switch	1 x Power Switch	1 x Power Switch	1 x Power Switch	1 x Power Switch
Display		N/A	N/A	N/A	Optional
Power supply	Type	Single/DualPower Supply (optional)	Single/DualPower Supply (optional)	Single/Dual/Redundant Power Supply (optional)	Single/Redundant Power Supply (optional)
	Power	65W(standard, single power supply)	65W(standard, single power supply)	65W(standard, single power supply)	65W(standard, single power supply)
	Input Voltage	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz
Cooling		1 x system fan	2 x system fans	2 x system fans	2 x system fans
Environment	Operating Temperature	0℃~40℃	0℃~40℃	0℃~40℃	0℃~40℃
	Storage Temperature	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃
	Storage Humidity	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing
Dimension	W x D x H	430 x 360 x 44 mm	440 x 450 x 44 mm	440 x 450 x 44 mm	440 x 450 x 44 mm
OS		Linux, FreeBSD9.2 or later, Windows7 or later	Linux, FreeBSD 9.2 or later, Windows 7 or later	Linux, FreeBSD 9.2 or later, Windows 7 or later	Linux, FreeBSD 9.2 or later, Windows 7 or later
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC
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I. Network Appliances

Rackmount Appliances



Type		NSC-7702	NSC-7712	NSC-7801	NSC-6002
Product form		2U Rackmount GAP Appliance	2U Rackmount	1U Rackmount	1U Rackmount
Platform	Processor	Intel Atom® C3000 Series	Intel Atom® C3000 Series	Intel Atom® C3000 Series	6th/7th/8th/9th Gen Intel® Xeon E3/ Core i7/i5/i3/ Pentium/ Celeron Processors
	Base Frequency	Refer to the specific CPU model	Refer to the specific CPU model	Refer to the specific CPU model	Refer to the specific CPU model
	Chipsets	SoC	SoC	SoC	Intel® Skylake C236
	BIOS	UEFI	UEFI	UEFI	UEFI
RAM	Type	DDR4 2133/2400 MHz	DDR4 2133/2400 MHz	DDR4 2133/2400 MHz	DDR4 1866/2133MHz
	Memory Slots	2 x DDR4 DIMMs	2 x DDR4 DIMMs	Onboard memory modules	4 x DDR4 DIMMs
	Max. Capacity	64GB	64GB	16GB	64GB
	ECC/Non ECC	ECC/Non ECC	ECC/Non ECC	ECC/Non ECC	ECC/Non ECC
Network	Ports	6 x GbE RJ45, 2 x 10GbE SFP+	6 x GbE RJ45, 2 x 10GbE SFP+	6 x GbE RJ45 or 4 x GbE RJ45, 2 x SFP	6 x GbE RJ45
	Controller	1x Marvell 88E1543, 1 x WX1860A4	1x Marvell 88E1543, 1 x WX1860A4	2 x RTL8111H, 4 x Intel® X553	6 x Intel® I210-AT
	Bypass	3 pairs GEN3 (optional)	3 pairs GEN3 (optional)	1pair GEN3 (optional)	3 pairs GEN3 (optional)
Expansion	MAITUO NIC Module	1 x NIC Network expansion module	1 x NIC Network expansion module	N/A	2 x NIC network expansion modules
	PCIe Module	1 x PCIe X8 expansion module	1 x PCIe X8 expansion module	1 x PCIe X4 expansion module	N/A
	M.2	N/A	N/A	2 x M.2 for 4G/5G 1 x M.2 for SSD (optional)	N/A
	MiniPCle	1 x miniPCle	1 x miniPCle	1 x miniPCle	1 x miniPCle
	WiFi	N/A	N/A	N/A	N/A
	4G/5G	N/A	N/A	N/A	N/A
Storage	HDD	2 x 2.5"/3.5"SATA HDD	1 x 2.5"/3.5"SATA HDD	1 x 2.5"SATA HDD	2 x 2.5"/3.5"SATA HDD
	Onboard Storage	mSATA/eMMC	mSATA/eMMC	mSATA/eMMC	mSATA/CF/M.2
I/O	Console	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
	USB	Upper: USB2.0 Lower: USB3.0	Upper: USB2.0 Lower: USB3.0	Upper: USB2.0 Lower: USB2.0	Upper: USB3.0 Lower: USB3.0
	GPIO	4	4	8	16
	Indicator	Refer to the details page	Refer to the details page	Refer to the details page	Refer to the details page
	Button	1 x Custom Butto	1 x Custom Button	1 x Custom Button	1 x Custom Button
	Power Switch	1 x Power Switch	1 x Power Switch	1 x Power Switch	1 x Power Switch
Display		Optional	Optional	Optional	1 x VGA
Power supply	Type	Single/Dual/Redundant Power Supply(optional)	Single/Dual/Redundant Power Supply(optional)	Single/DualPower Supply	Single/Redundant Power Supply (optional)
	Power	200W(standard, single power supply)	65W(standard, single power supply)	65W(standard, single power supply)	250W(standard, single power supply)
	Input Voltage	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz
Cooling		2 x system fans	2 x system fans	2 x system fans	3 x system fans
Environment	Operating Temperature	0℃~40℃	0℃~40℃	0℃~40℃	0℃~40℃
	Storage Temperature	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃
	Storage Humidity	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing
Dimension	W x D x H	440 x 640 x 88 mm	440 x 450 x 88 mm	440 x 300 x 44 mm	440 x 600 x 44 mm
OS		Linux, FreeBSD 9.2 or later, Windows 7 or later	Linux, FreeBSD 9.2 or later, Windows 7 or later	Linux, FreeBSD 9.2 or later, Windows 7 or later	Linux, FreeBSD 9.2 or later, Windows 7 or later
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC
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I. Network Appliances

Rackmount Appliances



Type		NSC-6006	NSC-6014	NSC-6025	NSC-6004
Product form		1U Rackmount	2U Rackmount	2U Rackmount	1U Rackmount
Platform	Processor	6th/7th/8th/9th Gen Intel® Xeon E3/ Core i7/i5 /i3/ Pentium/ Celeron Processors	6th/7th/8th/9th Gen Intel® Xeon E3/ Core i7/i5/i3/ Pentium/ Celeron Processors	6th/7th/8th/9th Gen Intel® Xeon E3/ Core i7/i5/i3/ Pentium/ Celeron Processors	6th/7th/8th/9th Gen Intel® Xeon E3/ Core i7/i5/i3/ Pentium/ Celeron Processors
	Base Frequency	Refer to the specific CPU model	Refer to the specific CPU model	Refer to the specific CPU model	Refer to the specific CPU model
	Chipsets	Intel® Skylake C236	Intel® Skylake C236	Intel® Skylake C236	Intel® Skylake C236
	BIOS	UEFI	UEFI	UEFI	UEFI
RAM	Type	DDR4 1866/2133MHz	DDR4 1866/2133MHz	DDR4 1866/2133MHz	DDR4 1866/2133MHz
	Memory Slots	2 x DDR4 DIMMs	2 x DDR4 DIMMs	4 x DDR4 DIMMs	2 x DDR4 DIMMs
	Max. Capacity	64GB	64GB	64GB	64GB
	ECC/Non ECC	ECC/Non ECC	ECC/Non ECC	ECC/Non ECC	ECC/Non ECC
Network	Ports	8 x GbE RJ45	8 x GbE RJ45	Up to 34 Network Interfaces, NIC Module Definition	6 x GbE RJ45, 2 x SFP
	Controller	8 x Intel® I210-AT	8 x Intel® I210-AT	NIC Module Definition	6 x Intel® I210-AT, 2 x Intel® I210-IS
	Bypass	3 pairs GEN3 (optional)	3 pairs GEN3 (optional)	NIC Module Definition	3 pairs GEN3 (optional)
Expansion	MAITUO NIC Module	2 x NIC network expansion modules	2 x NIC network expansion modules	4 x NIC network expansion modules	2 x NIC network expansion modules
	PCIe Module	N/A	N/A	2 x PCIe X8 expansion modules	N/A
	M.2	1 x M.2 (PCIe x1)	1 x M.2 (PCIe x1)	N/A	1 x M.2 (PCIe x1)
	MiniPCIe	1 x miniPCIe	1 x miniPCIe	2 x miniPCIe	1 x miniPCIe
	WiFi	N/A	N/A	N/A	N/A
	4G/5G	N/A	N/A	N/A	N/A
Storage	HDD	2 x 2.5"/3.5"SATA HDD	4 x 2.5"/3.5"SATA HDD	4 x 2.5"/3.5"SATA HDD	2 x 2.5"/3.5"SATA HDD
	Onboard Storage	mSATA/CF	mSATA/CF	mSATA/CF	mSATA/CF
I/O	Console	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
	USB	Upper: USB3.0 Lower: USB3.0	Upper: USB3.0 Lower: USB3.0	Upper: USB3.0 Lower: USB3.0	Upper: USB3.0 Lower: USB3.0
	GPIO	16	16	8	16
	Indicator	Refer to the details page	Refer to the details page	Refer to the details page	Refer to the details page
	Button	1 x Custom Button	1 x Custom Button	1 x Custom Button	1 x Custom Button
	Power Switch	1 x Power Switch	1 x Power Switch	1 x Power Switch	1 x Power Switch
Display		1 x VGA	1 x VGA	1 x VGA	1 x VGA
Power supply	Type	Single/Redundant Power Supply (optional)	Single/Redundant Power Supply (optional)	Single/Redundant Power Supply (optional)	Single/Redundant Power Supply (optional)
	Power	250W(standard, single power supply)	250W(standard, single power supply)	250W(standard, single power supply)	250W(standard, single power supply)
	Input Voltage	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz
Cooling		3 x system fans	2 x system fans	2 x system fans	3 x system fans
Environment	Operating Temperature	0℃~40℃	0℃~40℃	0℃~40℃	0℃~40℃
	Storage Temperature	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃
	Storage Humidity	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing
Dimension	W x D x H	440 x 600 x 44 mm	440 x 560 x 88 mm	440 x 560 x 88 mm	440 x 600 x 44 mm
OS		Linux, FreeBSD 9.2 or later, Windows 7 or later	Linux, FreeBSD 9.2 or later, Windows 7 or later	Linux, FreeBSD 9.2 or later, Windows 7 or later	Linux, FreeBSD 9.2 or later, Windows 7 or later
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC
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I. Network Appliances

Rackmount Appliances



Type		NSC-6010	NSC-8001	NSC-8031	NSC-8C02
Product form		2U Rackmount	2U Rackmount	1U Rackmount	2U Rackmount
Platform	Processor	6th/7th/8th/9th Gen Intel® Xeon E3/ Core i7/i5/i3/ Pentium/ Celeron Processors	2nd Gen Intel® Xeon® Scalable Processor	2nd Gen Intel® Xeon® Scalable Processor	12th/13th/14th Intel® i9/i7/i5/i3/ Pentium / Celeron Processors
	Base Frequency	Refer to the specific CPU model	Refer to the specific CPU model	Refer to the specific CPU model	Refer to the specific CPU model
	Chipsets	Intel® Skylake C236	Intel® Skylake C621	Intel® Skylake C621	Intel® R680E
	BIOS	UEFI	UEFI	UEFI	UEFI
RAM	Type	DDR4 1866/2133MHz	DDR4 2133/2400/ 2666MHz ECC RDIMM	DDR4 2133/2400/ 2666MHz ECC RDIMM	DIMM DDR5 Up to 5600MHz
	Memory Slots	4 x DDR4 DIMMs	12 x DDR4 DIMMs	12 x DDR4 DIMMs	4 x DDR5 DIMMs
	Max. Capacity	64GB	384GB	384GB	192GB
	ECC/Non ECC	ECC/Non ECC	RDIMM ECC	RDIMM ECC	ECC/Non ECC
Network	Ports	6 x GbE RJ45	Up to 66 Network Interfaces, NIC Module Definition	Up to 34 Network Interfaces, NIC Module Definition	Up to 66 Network Interfaces, NIC Module Definition
	Controller	6 x Intel® I210-AT	NIC Module Definition	NIC Module Definition	NIC Module Definition
	Bypass	3 pairs GEN3 (optional)	NIC Module Definition	NIC Module Definition	NIC Module Definition
Expansion	MAITUO NIC Module	2 x NIC network expansion modules	8 x NIC network expansion modules	4 x NIC network expansion modules	4 x NIC network expansion modules
	PCIe Module	N/A	1 x PCIe 16X expansion module	N/A	1 x PCIe 8X expansion module
	M.2	N/A	N/A	N/A	N/A
	MiniPCIe	1 x miniPCIe	2 x miniPCIe	2 x miniPCIe	1 x miniPCIe (optional)
	WiFi	N/A	N/A	N/A	Optional
	4G/5G	N/A	N/A	N/A	N/A
Storage	HDD	4 x 2.5"/3.5"SATA HDD	2 x 2.5"/3.5"SATA HDD	1 x 2.5"SATA HDD	2 x 2.5"/3.5"SATA HDD
	Onboard Storage	mSATA/CF/M.2	mSATA/CF	mSATA/CF	mSATA/M.2 (NVMe , optional)
I/O	Console	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
	USB	Upper: USB3.0 Lower: USB3.0	Upper: USB3.0 Lower: USB3.0	Upper: USB3.0 Lower: USB3.0	Upper: USB3.0 Lower: USB3.0
	GPIO	16	4	4	8
	Indicator	Refer to the details page	Refer to the details page	Refer to the details page	Refer to the details page
	Button	1 x Custom Button	N/A	N/A	N/A
	Power Switch	1 x Power Switch	1 x Power Switch	1 x Power Switch	1 x Power Switch
Display		1 x VGA	1 x VGA (optional)	1 x VGA (optional)	1 x HDMI (built-in) 1 x VGA (optional)
Power supply	Type	Single/Redundant Power Supply (optional)	CRPS Redundant Power Supply	CRPS Redundant Power Supply	CRPS Redundant Power Supply
	Power	250W(standard, single power supply)	550W	550W	550W
	Input Voltage	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz
Cooling		2 x system fans	3 x Hot-swappable system fan modules	3 x Hot-swappable system fan modules	3 x Hot-swappable system fan modules
Environment	Operating Temperature	0℃~40℃	0℃~40℃	0℃~40℃	0℃~40℃
	Storage Temperature	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃
	Storage Humidity	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing
Dimension	W x D x H	440 x 560 x 88 mm	440 x 560 x 88 mm	440 x 560 x 44 mm	440 x 560 x 88 mm
		/	/	/	Surpport
OS		Linux, FreeBSD 9.2 or later, Windows 7 or later	Linux, FreeBSD 9.2 or later, Windows 7 or later	Linux, FreeBSD 9.2 or later, Windows 7 or later	Linux, FreeBSD 9.2 or later, Windows 7 or later
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC
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I. Network Appliances

Rackmount Appliances



Type		NSC-8D01	NSC-8E01	NSC-8E02
Product form		1U Rackmount	1U Rackmount	2U Rackmount
Platform	Processor	12th/13th/14th Intel® i9/ i7/i5/i3 /Pentium / Celeron Processors	4th/5th Gen Intel® Xeon® Scalable Processors	4th/5th Gen Intel® Xeon® Scalable Processors
	Base Frequency	Refer to the specific CPU model	Refer to the specific CPU model	Refer to the specific CPU model
	Chipsets	Intel® R680E	Intel® C741	Intel® C741
	BIOS	UEFI	UEFI	UEFI
RAM	Type	DIMM DDR5 Up to 5600MHz	DDR5 up to 5600MHz ECC RDIMM	DDR5 up to 5600MHz ECC RDIMM
	Memory Slots	4 x DDR5 DIMMs	16 x DDR5 DIMMs	16 x DDR5 DIMMs
	Max. Capacity	192GB	4TB	4TB
	ECC/Non ECC	ECC/Non ECC	RDIMM ECC	RDIMM ECC
Network	Ports	1 x GbE RJ45, 8 x 2.5 GbE RJ45, 2 x SFP	Up to 34 Network Interfaces, NIC Module Definition	Up to 66 Network Interfaces, NIC Module Definition
	Controller	1x Intel® I210-AT, 8 x Intel® I226, 2 x Intel® I210-AS	NIC Module Definition	NIC Module Definition
	Bypass	4 pairs GEN3 (optional)	NIC Module Definition	NIC Module Definition
Expansion	MAITUO NIC Module	2 x NIC network expansion modules	4 x NIC network expansion modules	8 x NIC network expansion modules
	PCIe Module	1 x PCIe 8X expansion module	N/A	1 x PCIe 16X expansion module
	M.2	1 x M.2	N/A	N/A
	MiniPCIe	1 x miniPCIe	1 x miniPCIe	1 x miniPCIe
	WiFi	Optional	N/A	N/A
	4G/5G	N/A	N/A	N/A
Storage	HDD	1 x 2.5"SATA HDD	1 x 2.5"SATA HDD	2 x 2.5"/3.5"SATA HDD
	Onboard Storage	mSATA/M.2 (NVMe)	mSATA/M.2(NVMe)	mSATA/M.2(NVMe)
I/O	Console	1 x RJ45	1 x RJ45	1 x RJ45
	USB	Upper: USB3.0 Lower: USB3.0	Upper: USB3.0 Lower: USB3.0	Upper: USB3.0 Lower: USB3.0
	GPIO	8	4	4
	Indicator	Refer to the details page	Refer to the details page	Refer to the details page
	Button	N/A	N/A	N/A
	Power Switch	1 x Power Switch	1 x Power Switch	1 x Power Switch
Display		1 x HDMI (built-in) 1 x VGA (optional)	1 x VGA (optional)	1 x VGA (optional)
Power supply	Type	Single/Redundant Power Supply (optional)	CRPS Redundant Power Supply	CRPS Redundant Power Supply
	Power	250W (standard, single power supply)	550W	550W
	Input Voltage	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz
Cooling		2 x system fans	3 x Hot-swappable system fan modules	3 x Hot-swappable system fan modules
Environment	Operating Temperature	0 C ~ 40 C	0 C ~ 40 C	0 C ~ 40 C
	Storage Temperature	-40 C ~ 70 C	-40 C ~ 70 C	-40 C ~ 70 C
	Storage Humidity	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing
Dimension	W x D x H	440 x 560 x 44 mm	440 x 592 x 44 mm	440 x 592 x 88 mm
		Surpport	Surpport	Surpport
OS		Linux, FreeBSD 9.2 or later, Windows 7 or later	Linux, FreeBSD 9.2 or later, Windows 7 or later	Linux, FreeBSD 9.2 or later, Windows 7 or later
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC
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I. Network Appliances

Industrial Appliances



Type		NSC-2009	NSC-2012	NSC-6017
Product form		DIN-Rail	1U Rackmount	1U Rackmount
Platform	Processor	Intel® Baytrail J1900/E3845 /E3825 4/4/2 Cores	Intel® Baytrail J1800 /J1900 2/4 Cores	6th/7th/8th/9th Gen Intel® Xeon E3/i7/i5/i3/Pentium/ Celeron processors, low-power versions
	Base Frequency	2.0GHz/1.91GHz/1.33GHz	2.41GHz/2.0GHz	Refer to the specific CPU model
	Chipsets	SoC	SoC	Intel® Skylake C236
	BIOS	UEFI	UEFI	UEFI
RAM	Type	DDR3/3L 1067/1333/1600MHz	DDR3/3L 1333/1600MHz	DDR4 1866/2133 MHz
	Memory Slots	1 x DDR3 SO-DIMM	1 x DDR3 SO-DIMM	2 x DDR4 DIMM
	Max. Capacity	8GB	8GB	64GB
	ECC/Non ECC	Non ECC	Non ECC	ECC/Non ECC
Network	Ports	6 x GbE RJ45	6 x GbE RJ45, 2 x SFP	6 x GbE RJ45, 2 x SFP
	Controller	6 x Intel® I210-AT	6 x Intel® I210-AT 2 x Intel® I210-AS	6 x Intel® I210-AT 2 x Intel® I210-AS
	Bypass	2 pairs GEN3 (optional)	3 pairs GEN3 (optional)	3 pairs GEN3 (optional)
Expansion	MAITUO NIC Module	N/A	1 x NIC Network expansion module	2 x NIC Network expansion modules
	PCIe Module	N/A	N/A	N/A
	M.2	1 x M.2	N/A	1 x M.2
	MiniPCIe	1 x miniPCIe	1 x miniPCIe	1 x miniPCIe
	WiFi	Optional	N/A	N/A
	4G/5G	Optional	N/A	N/A
Storage	HDD	1 x 2.5"SATA HDD	1 x 2.5"/3.5"SATA HDD	1 x 2.5"/3.5"SATA HDD
	Onboard Storage	mSATA	mSATA/CF	mSATA/CF
I/O	Console	1 x RJ45	1 x RJ45	1 x RJ45
	USB	Upper: USB2.0 Lower: USB2.0	Upper: USB2.0 Lower: USB2.0	Upper: USB3.0 Lower: USB3.0
	GPIO	8	8	8
	Indicator	Refer to the details page	Refer to the details page	Refer to the details page
	Button	1 x Custom Button	1 x Custom Button	1 x Custom Button
	Power Switch	N/A	1 x Power Switch	1 x Power Switch
Display		1x HDMI	1 x VGA	1 x VGA
Power supply	Type	Power Adapter	Single / Dual Power Supply(optional)	Single / Dual Power Supply(optional)
	Power	60W	65W	150W
	Input Voltage	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz
Cooling		Fanless	Fanless	Fanless
Environment	Operating Temperature	-20℃ ~ 75℃	0℃ ~ 40℃	0℃ ~ 40℃
	Storage Temperature	-40℃ ~ 85℃	-40℃ ~ 70℃	-40℃ ~ 70℃
	Storage Humidity	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing
Dimension	W x D x H	163 x 132 x 80 mm	430 x 360 x 44mm	440 x 560 x 44 mm
OS		Linux, FreeBSD 9.2 or later, and Windows 7 or later	Linux, FreeBSD 9.2 or later, and Windows 7 or later	Linux, FreeBSD 9.2 or later, and Windows 7 or later
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC
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I. Network Appliances

Whitebox Appliances



Type		NSC-2K13	NSC-2903	NSC-6503	NSC-5012
Product form		Desktop	Desktop	Desktop	Desktop
Platform	Processor	ARM Rockchip RK3568 Quad-Core	ARM Rockchip RK3568 Quad-Core	ARM Phytium E2000Q Quad-core	Intel Atom® C3000 Series
	Base Frequency	2.0GHz	2.0GHz	2.0GHz	Refer to the specific CPU model
	Chipsets	SoC	SoC	SoC	SoC
	BIOS	UBOOT	UBOOT	UEFI	UEFI
RAM	Type	DDR4 2400 MHz	DDR4 2400 MHz	DDR4 2400MHz	DDR4 2133/2400 MHz
	Memory Slots	N/A	N/A	N/A	DDR4 SO-DIMM
	Max. Capacity	4GB	8GB	64GB	64GB
	ECC/Non ECC	Non ECC	Non ECC	ECC/Non ECC (optional)	ECC/Non ECC
Network	Ports	4 x GbE RJ45	5 x GbE RJ45, 1 x Combo	8 x GbE RJ45, 2 x RJ45/SFP Combo	2 x GbE RJ45, 4 x 2.5GbE RJ45, 2 x Combo
	Controller	2 x RTL8211F, 2 x RTL8111H	4 x RTL8111H, 2 x RTL8211FS	6 x RTL8111H, 4 x RTL8211	2 x Marvell 88E1514, 4 x Intel® I226-V, 1 x Marvell 88E1543
	Bypass	N/A	2 pairs GEN3 (optional)	1 pair GEN3 (optional)	3 pairs GEN3 (optional)
Expansion	MAITUO NIC Module	N/A	N/A	N/A	N/A
	PCIe Module	N/A	N/A	N/A	N/A
	M.2	2 x M.2 for 4G /5G	1 x M.2 for 4G /5G	1 x M.2 for 4G/5G	1 x M.2 for 4G/5G 1 x M.2 for WiFi
	MiniPCIe	1 x miniPCIe	1 x miniPCIe	1 x miniPCIe	1 x miniPCIe
	WiFi	Optional	Optional	N/A	Optional
	4G/5G	Optional	Optional	Optional	Optional
Storage	HDD	N/A	N/A	N/A	1 x 2.5"SATA HDD
	Onboard Storage	mSATA/eMMC/TF	mSATA/eMMC/TF	mSATA/eMMC	eMMC/mSATA
I/O	Console	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
	USB	Upper: USB2.0 Lower: USB2.0 OTG	Upper: USB2.0 Lower: USB2.0	Upper: USB2.0 Lower: USB2.0	Upper: USB2.0 Lower: USB2.0
	GPIO	N/A	4	8	8
	Indicator	Refer to the details page	Refer to the details page	Refer to the details page	Refer to the details page
	Button	1 x Custom Button	1 x Custom Button	1 x Custom Button	1 x Custom Button
	Power Switch	N/A	N/A	N/A	1 x Power Switch
Display		N/A	1x HDMI	1 x VGA (optional)	N/A
Power supply	Type	Power adapter	Power Adapter	Power Adapter	Single Power Supply
	Power	24W	24W	60W	65W
	Input Voltage	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz
Cooling		CPU active cooler	CPU active cooler	CPU active cooler	1 x system fan
Environment	Operating Temperature	0℃~40℃	0℃~40℃	0℃~40℃	0℃~40℃
	Storage Temperature	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃
	Storage Humidity	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing
Dimension	W x D x H	198 x 109 x 32mm	210 x140 x 30 mm	230 x 176 x 44 mm	310 x 203 x 44 mm
TPM		Support	/	/	/
OS		Android, Linux	Android, Linux	Kylin OS, Ubuntu	Linux, FreeBSD 9.2 or later, and Windows 7 or later
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC
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I. Network Appliances

Whitebox Appliances



Type		NSC-7503	NSC-8D01	NSC-8E01
Product form		Desktop	1U Rackmount	1U Rackmount
Platform	Processor	Intel Atom® C3000 Series	12th/13th/14th Intel® i9/ i7/i5/i3 /Pentium / Celeron Processors	4th/5th Gen Intel® Xeon® Scalable Processors
	Base Frequency	Refer to the specific CPU model	Refer to the specific CPU model	Refer to the specific CPU model
	Chipsets	SoC	Intel® R680E	Intel® C741
	BIOS	UEFI	UEFI	UEFI
RAM	Type	DDR4 2133/2400 MHz	DIMM DDR5 Up to 5600MHz	DDR5 up to 5600MHz ECC RDIMM
	Memory Slots	DDR4 SO-DIMM	4 x DDR5 DIMMs	16 x DDR5 DIMMs
	Max. Capacity	32GB	192GB	4TB
	ECC/Non ECC	ECC/Non ECC (optional)	ECC/Non ECC	RDIMM ECC
Network	Ports	6 x GbE RJ45 or 4 x GbE RJ45 + 2 x SFP	1 x GbE RJ45, 8 x 2.5GbE RJ45, 2 x SFP	Up to 34 Network Interfaces, NIC Module Definition
	Controller	2 x I210-AT/I210-AS, 1 x 88E1543	1x Intel® I210-AT, 8 x Intel® I226, 2 x Intel® I210-AS	NIC Module Definition
	Bypass	2 pairs GEN3 (optional)	4 pairs GEN3 (optional)	NIC Module Definition
Expansion	MAITUO NIC Module	N/A	2 x NIC network expansion modules	4 x NIC network expansion modules
	PCIe Module	N/A	1 x PCIe 8X expansion module	N/A
	M.2	2 x M.2 for 4G/5G	1 x M.2	N/A
	MiniPCIe	1 x miniPCIe	1 x miniPCIe	1 x miniPCIe
	WiFi	Optional	N/A	N/A
	4G/5G	Optional	Optional	N/A
Storage	HDD	N/A	1 x 2.5"SATA HDD	1 x 2.5"SATA HDD
	Onboard Storage	M.2 (SATA) /eMMC	mSATA/M.2 (NVMe)	mSATA/M.2(NVMe)
I/O	Console	1 x RJ45	1 x RJ45	1 x RJ45
	USB	Upper: USB3.0 Lower: USB3.0	Upper: USB3.0 Lower: USB3.0	Upper: USB3.0 Lower: USB3.0
	GPIO	4	8	4
	Indicator	Refer to the details page	Refer to the details page	Refer to the details page
	Button	1 x Custom Button	N/A	N/A
	Power Switch	N/A	1 x Power Switch	1 x Power Switch
Display		N/A	1 x HDMI (built-in) 1 x VGA (optional)	1 x VGA (optional)
Power supply	Type	Power Adapter	Single/Redundant Power Supply (optional)	CRPS Redundant Power Supply
	Power	60W	250W (standard, single power supply)	550W
	Input Voltage	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz
Cooling		CPU active cooler	2 x system fans	3 x Hot-swappable system fan modules
Environment	Operating Temperature	0℃~40℃	0℃~40℃	0℃~40℃
	Storage Temperature	-40℃~70℃	-40℃~70℃	-40℃~70℃
	Storage Humidity	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing
Dimension	W x D x H	240 x 200 x 44 mm	440 x 560 x 44 mm	440 x 592 x 44 mm
TPM		Support	Support	Support
OS		Linux, FreeBSD 9.2 or later, and Windows 7 or later	Linux, FreeBSD 9.2 or later, Windows 7 or later	Linux, FreeBSD 9.2 or later, Windows 7 or later
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC
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II. Telecom Appliances

SD-WAN-uCPE vCPE



Type		NSC-2K13	NSC-2903	NSC-6503	NSC-5012
Product form		Desktop	Desktop	Desktop	Desktop
Platform	Processor	ARM Rockchip RK3568 Quad-Core	ARM Rockchip RK3568 Quad-Core	ARM Phytium E2000Q Quad-Core	Intel Atom® C3000 Series
	Base Frequency	2.0GHz	2.0GHz	2.0GHz	Refer to the specific CPU model
	Chipsets	SoC	SoC	SoC	SoC
	BIOS	UBOOT	UBOOT	UEFI	UEFI
RAM	Type	DDR4 2400 MHz	DDR4 2400 MHz	DDR4 2400MHz	DDR4 2133/2400 MHz
	Memory Slots	N/A	N/A	N/A	DDR4 SO-DIMM
	Max. Capacity	4GB	8GB	64GB	64GB
	ECC/Non ECC	Non ECC	Non ECC	ECC/Non ECC (optional)	ECC/Non ECC
Network	Ports	4 x GbE RJ45	5 x GbE RJ45, 1 x Combo	8 x GbE RJ45, 2 x RJ45/SFP Combo	2 x GbE RJ45, 4 x 2.5GbE RJ45, 2 x Combo
	Controller	2 x RTL8211F, 2 x RTL8111H	4 x RTL8111H, 2 x RTL8211FS	6 x RTL8111H, 4 x RTL8211	2 x Marvell 88E1514, 4 x Intel® I226-V, 1 x Marvell 88E1543
	Bypass	N/A	2 pairs GEN3 (optional)	1 pair GEN3 (optional)	3 pairs GEN3 (optional)
Expansion	MAITUO NIC Module	N/A	N/A	N/A	N/A
	PCIe Module	N/A	N/A	N/A	N/A
	M.2	2 x M.2 for 4G /5G	1 x M.2 for4G /5G	1 x M.2 for 4G/5G	1 x M.2 for 4G/5G 1 x M.2 for WiFi
	MiniPCle	1 x minipCle	1 x miniPCle	1 x miniPCle	1 x miniPCle
	WiFi	Optional	Optional	N/A	Optional
	4G/5G	Optional	Optional	Optional	Optional
Storage	HDD	N/A	N/A	N/A	1 x 2.5"SATA HDD
	Onboard Storage	mSATA/eMMC/TF	mSATA/eMMC/TF	mSATA/eMMC	eMMC/mSATA
I/O	Console	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
	USB	Upper: USB2.0 Lower: USB2.0 OTG	Upper: USB2.0 Lower: USB2.0	Upper: USB2.0 Lower: USB2.0	Upper: USB2.0 Lower: USB2.0
	GPIO	N/A	4	8	8
	Indicator	Refer to the details pag	Refer to the details page	Refer to the details page	Refer to the details page
	Button	1 x Custom Button	1 x Custom Button	1 x Custom Button	1 x Custom Button
	Power Switch	N/A	N/A	N/A	1 x Power Switch
Display		N/A	1x HDMI (optional)	1 x VGA (optional)	N/A
Power supply	Type	Power adapter	Power Adapter	Power Adapter	Single Power Supply
	Power	24W	24W	60W	65W
	Input Voltage	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz
Cooling		CPU Active cooler	CPU Active cooler	CPU Active cooler	1 x system fan
Environment	Operating Temperature	0℃~40℃	0℃~40℃	0℃~40℃	0℃~40℃
	Storage Temperature	-40℃~70℃	-40℃~70℃	-40℃~70℃	-40℃~70℃
	Storage Humidity	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing
Dimension	W x D x H	198 x 109 x 32mm	210 x140 x 30 mm	230 x 176 x 44 mm	310 x 203 x 44 mm
TPM		Support	/	/	/
OS		Android, Linux	Android, Linux	Kylin OS, Ubuntu	Linux, FreeBSD 9.2 or later, and Windows 7 or later
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC
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II. Telecom Appliances

SD-WAN-uCPE vCPE



Type		NSC-7503	NSC-8E01
Product form		Desktop	1U Rackmount
Platform	Processor	Intel Atom® C3000 Series	4th/5th Gen Intel® Xeon® Scalable Processors
	Base Frequency	Refer to the specific CPU model	Refer to the specific CPU model
	Chipsets	SoC	Intel® C741
	BIOS	UEFI	UEFI
RAM	Type	DDR4 2133/2400 MHz	DDR5 up to 5600MHz ECC RDIMM
	Memory Slots	DDR4 SO-DIMM	16 x DDR5 DIMMs
	Max. Capacity	32GB	4TB
	ECC/Non ECC	ECC/Non ECC (optional)	RDIMM ECC
Network	Ports	6 x GbE RJ45 or 4 x GbE RJ45 + 2 x SFP	Up to 34 Network Interfaces, NIC Module Definition
	Controller	2 x I210-AT/I210-AS, 1 x 88E1543	NIC Module Definition
	Bypass	2 pairs GEN3 (optional)	NIC Module Definition
Expansion	MAITUO NIC Module	N/A	4 x NIC network expansion modules
	PCIe Module	N/A	N/A
	M.2	2 x M.2 for 4G/5G	N/A
	MiniPCIe	1 x miniPCIe	1 x miniPCIe
	WiFi	Optional	N/A
	4G/5G	Optional	N/A
Storage	HDD	N/A	1 x 2.5"SATA HDD
	Onboard Storage	M.2 (SATA) /eMMC	mSATA/M.2(NVMe)
I/O	Console	1 x RJ45	1 x RJ45
	USB	Upper: USB3.0 Lower: USB3.0	Upper: USB3.0 Lower: USB3.0
	GPIO	4	4
	Indicator	Refer to the details page	Refer to the details page
	Button	1 x Custom Button	N/A
	Power Switch	N/A	1 x Power Switch
Display		N/A	1 x VGA (optional)
Power supply	Type	Power Adapter	CRPS Redundant Power Supply
	Power	60W	550W
	Input Voltage	AC 100~240V 50~60Hz	AC 100~240V 50~60Hz
Cooling		CPU Active cooler	3 x Hot-swappable system fan modules
Environment	Operating Temperature	0℃ ~ 40℃	0℃ ~ 40℃
	Storage Temperature	-40℃ ~ 70℃	-40℃ ~ 70℃
	Storage Humidity	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing
Dimension	W x D x H	240 x 200 x 44 mm	440 x 592 x 44 mm
TPM		Support	Support
OS		Linux, FreeBSD 9.2 or later, and Windows 7 or later	Linux, FreeBSD 9.2 or later, Windows 7 or later
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC
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Type		NVC-8E12
Product form		2U Rackmount
Platform	Processor	4th/5th Gen Intel® Xeon® Scalable Processors
	Base Frequency	Refer to the specific CPU model
	Chipsets	Intel® C741
	BIOS	UEFI
RAM	Type	DDR5 up to 5600MHz ECC RDIMM
	Memory Slots	16 x DDR5 DIMMs
	Max. Capacity	4TB
	ECC/Non ECC	RDIMM ECC
Network	Ports	16 x GbE RJ45, 8 x GbE SFP, 8 x 10GbE SFP+
	Controller	Switch CPU
	Bypass	4 pairs, GEN3 (optional)
Expansion	MAITUO NIC Module	4 x NIC network expansion modules
	PCIe Module	1 x PCIe 16X expansion module
	M.2	N/A
	MiniPCIe	1 x miniPCIe
	WiFi	N/A
	4G/5G	N/A
Storage	HDD	2 x 2.5"/3.5"SATA HDD
	Onboard Storage	mSATA/M.2(NVMe)
I/O	Console	1 x RJ45
	USB	Upper: USB3.0 Lower: USB3.0
	GPIO	8
	Indicator	Refer to the details page
	Reset Button	N/A
	Power Switch	1 x Power switch
Display		1 x VGA(optional)
Power supply	Type	CRPS Redundant Power Supply
	Power	550W
	Input Voltage	AC 100~240V 50~60Hz
Cooling		3 x Hot-swappable system fan modules
Environment	Operating Temperature	0 C ~ 40 C
	Storage Temperature	-40 C ~ 70 C
	Storage Humidity	5% ~ 95%, non-condensing
Dimension	W x D x H	440 x 592 x 88 mm
TPM		Support
OS		Linux, FreeBSD 9.2 or later, Windows 7 or later
Product Certification		EMC, RoHS, CE, FCC
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IV. Network Adapters&Modules

Network Adapters



Model		GAS-0025-1MC	GAS-0025-4CT	GAS-0025-4FT	GAS-0025-4FBT
Network	Ports	1 x RJ45	4 x RJ45	4 x RJ45	4 x RJ45
	Controller	Intel® I210	Intel® I350	Intel® I350	Intel® I350
	Bypass	N/A	2 pairs Bypass GEN3	N/A	2 pairs Bypass GEN3
	Port Speed	10/100/1000M	10/100/1000M	10/100/1000M	10/100/1000M
I/O	Indicator	Left: Active, yellow, blinking Right: 10M - Off 100M - Yellow 1000M - Green	Left: Active, yellow, blinking Right: 10M - Off 100M - Yellow 1000M - Green	Active Green, Blinking	Left: TX Green, Blinking for Data Transmission Right: RX Yellow, Blinking for Data Transmission
Bus		miniPCle	PCIe 8X	PCIe 8X	PCIe 8X
Power Supply	Type	Standard miniPCle Power Supply	Standard PCIe power supply	Standard PCIe power supply	Standard PCIe power supply
	Power	1.1W	5.6W	5.6W	5.7W
Cooling		Fanless Cooling Design	Fanless Cooling Design	Fanless Cooling Design	Fanless Cooling Design
Environment	Operating Temperature	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃
	Storage Humidity	-40℃ ~ 85℃	-40℃ ~ 85℃	-40℃ ~ 85℃	-40℃ ~ 85℃
	Storage Humidity	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing
Board Size		50.9 x 30 mm	171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC



Model		GAS-4C4FST	GAS-0025-8CT	GAS-0025-8FT	GAS-0025-2WFT
Network	Ports	4 x RJ45 + 4 x SFP	8 x RJ45	8 x SFP	2 x 10G SFP+
	Controller	Intel® I350	Intel® I350	Intel® I350	Intel® 82599ES
	Bypass	N/A	4 pairs Bypass GEN3	N/A	N/A
	Port Speed	10/100/1000M	10/100/1000M	10/100/1000M	10G
I/O	Indicator	RJ45: Left: Active Yellow, Blinking Right: 10M - Off 100M - Yellow 1000M - Green SFP: Left: Active Green, Blinking Right: Link Green, Solid	Left: Active, yellow, blinking Right: 10M - Off 100M - Yellow 1000M - Green	Left: Active Green, Blinking Right: Link Green, Solid	Top: Active Green, Blinking Bottom: Link Green, Solid
Bus		PCIe 8X	PCIe 8X	PCIe 8X	PCIe 8X
Power Supply	Type	Standard PCIe power supply	Standard PCIe power supply	Standard PCIe power supply	Standard PCIe power supply
	Power	11.1W	15W	12W	8W
Cooling		Fanless Cooling Design	Fanless Cooling Design	Fanless Cooling Design	Fan Cooling Design
Environment	Operating Temperature	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃
	Storage Humidity	-40℃ ~ 85℃	-40℃ ~ 85℃	-40℃ ~ 85℃	-40℃ ~ 85℃
	Storage Humidity	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing
Board Size		171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC

IV. Network Adapters&Modules

Network Adapters



Model		GAS-0025-2WFBT	GAS-0025-4WFT	GAS-0025-4WFBT	GAS-0025-80FT
Network	Ports	2 x 10G SFP+	4 x 10G SFP+	4 x 10G SFP+	2 x 40G QSFP28
	Controller	Intel® 82599ES	Intel® XL710	Intel® XL710 BM1	Intel® XL710
	Bypass	1pair Bypass GEN3	N/A	2 pairs Bypass GEN3	N/A
	Port Speed	10G	10G	10G	40G
I/O	Indicator	Left: TX Green, Blinking for Data Transmission Right: RX Yellow, Blinking for Data Transmission	Active Green, Blinking	Left: TX Green, Blinking for Data Transmission Right: RX Yellow, Blinking for Data Transmission	Top: Active Green, Blinking Bottom: Link Green, Solid
Bus		PCIe 8X	PCIe 8X	PCIe 8X	PCIe 8X
Power Supply	Type	Standard PCIe power supply	Standard PCIe power supply	Standard PCIe power supply	Standard PCIe power supply
	Power	8.1W	7.6W	7.5W	5.7W
Cooling		Fan Cooling Design	Fanless Cooling Design	Fanless Cooling Design	Fanless Cooling Design
Environment	Operating Temperature	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃
	Storage Humidity	-40℃ ~ 85℃	-40℃ ~ 85℃	-40℃ ~ 85℃	-40℃ ~ 85℃
	Storage Humidity	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing
Board Size		171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC



Model		GAS-0025-100G	GAS-0025-100GT	GAS-0025-G4CT	GAS-0025-G4FT
Network	Ports	2 x 100G QSFP28	2 x 100G QSFP28	4 x RJ45	4 x SFP
	Controller	Intel® E810	Intel® E810	Netswift WX1860	Netswift WX1860
	Bypass	N/A	N/A	2 pairs Bypass GEN3	N/A
	Port Speed	100G	100G	10/100/1000M	10/100/1000M
I/O	Indicator	Top: Active Green, Blinking Bottom: Link Green, Solid	Top: Active Green, Blinking Bottom: Link Green, Solid	Left: Active, yellow, blinking Right: 10M - Off 100M - Yellow 1000M - Green	Active Green, Blinking
Bus		2 x PCIe 8X	PCIe 8X	PCIe 8X	PCIe 8X
Power Supply	Type	Standard PCIe power supply	Standard PCIe power supply	Standard PCIe power supply	Standard PCIe power supply
	Power	39.5W(max)	39.5W(max)	3.6W	3.5W
Cooling		Fan Cooling Design	Fanless Cooling Design	Fanless Cooling Design	Fanless Cooling Design
Environment	Operating Temperature	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃
	Storage Humidity	-40℃ ~ 85℃	-40℃ ~ 85℃	-40℃ ~ 85℃	-40℃ ~ 85℃
	Storage Humidity	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing
Board Size		171.5 x 145.8 mm	171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC

IV. Network Adapters&Modules

Network Adapters



Model		GAS-0025-G4C1T	GAS-0025-G4F1T	GAS-0025-G8CT	GAS-0025-G8FT
Network	Ports	4 x RJ45	4 x RJ45	8 x RJ45	8 x SFP
	Controller	MuChuang N500L-AM4	MuChuang N400L-X4	MuChuang N10L-X8	MuChuang N10L-X8
	Bypass	N/A	N/A	4 pairs Bypass GEN3	N/A
	Port Speed	10/100/1000M	10/100/1000M	10/100/1000M	10/100/1000M
I/O	Indicator	Left: Active, yellow, blinking Right: 10M - Off 100M - Yellow 1000M - Green	Top: Active Green, Blinking Bottom: Link Green, Solid	Left: Active, yellow, blinking Right: 10M - Off 100M - Yellow 1000M - Green	Left: Active Green, Blinking Right: Link Green, Solid
Bus		PCIe 8X	PCIe 8X	PCIe 8X	PCIe 8X
Power Supply	Type	Standard PCIe power supply	Standard PCIe power supply	Standard PCIe power supply	Standard PCIe power supply
	Power	3.6W	5.1W	7W	7.1W
Cooling		Fan Cooling Design	Fanless Cooling Design	Fanless Cooling Design	Fanless Cooling Design
Environment	Operating Temperature	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃
	Storage Humidity	-40℃ ~ 85℃	-40℃ ~ 85℃	-40℃ ~ 85℃	-40℃ ~ 85℃
	Storage Humidity	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing
Board Size		171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC



Model		GAS-0025-G2WFT	GAS-0025-G2WF1T	GAS-0025-G4WFT
Network	Ports	2 x 10G SFP+	2 x 10G SFP+	4 x 10G SFP+
	Controller	Netswift SP1000A	MuChuang N10G-X4	MuChuang N10G-X4
	Bypass	N/A	N/A	N/A
	Port Speed	10G	10G	10G
I/O	Indicator	Left: Active Green, Blinking Right: Link Green, Solid	Left: Active Green, Blinking Right: Link Green, Solid	Active Green, Blinking
Bus		PCIe 8X	PCIe 8X	PCIe 8X
Power Supply	Type	Standard PCIe power supply	Standard PCIe power supply	Standard PCIe power supply
	Power	3.6W	5.1W	7W
Cooling		Fan Cooling Design	Fanless Cooling Design	Fanless Cooling Design
Environment	Operating Temperature	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃
	Storage Humidity	-40℃ ~ 85℃	-40℃ ~ 85℃	-40℃ ~ 85℃
	Storage Humidity	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing	5% ~ 95%, non-condensing
Board Size		171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm
Product Certification		EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC	EMC, RoHS, CE, FCC

IV. Network Adapters&Modules

Optical Transievers



Model	1.25G-SFP-850nm-550m	1.25G-SFP-SM-31-15KM	10G-SFP+-850nm-300m	10G-SFP+-1310nm-10KM	40G-QSFP+-850nm-300m
Package Type	SFP	SFP	SFP+	SFP+	QSFP+
Data Rate	1.25Gbps	1.25Gbps	10Gbps	10Gbps	40Gbps
Connector Type	LC Duplex	LC Duplex	LC Duplex	LC Duplex	MPO
Reference Distance	550m	15km	300m	10km	300m
Fiber Type	Multi-Mode	Single-Mode	Multi-mode Fiber (OM3)	Single-Mode	Multi-mode Fiber (OM3)
Center Wavelength	850nm	1310nm	850nm	1310nm	850nm
Transmitter Type (E/O)	VCSEL	VCSEL	VCSEL	DFB	VCSEL
Application	1000Base-SX	1000Base-LX	10G BASE-SR/SW	10G BASE-LR	40GBASE-SR4
Extinction Ratio	> 9dB	> 9dB	> 3dB	> 3.5dB	> 3dB
Average Launch Power	-9.5~-3dBm	-9~-3dBm	-7.3~-1dBm	-8.2~0.5dBm	-7.6~2.4dBm
Receiver Sensitivity	<-18dBm	<-20dBm	<-9.9dBm	<-14.4dBm	<-9.5dBm
Receiver Optical Overload	> 0 dBm	> -3 dBm	>-1dBm	>0.5dBm	>2.4dBm
Regulatory Certification	RoHS/IEC/FCC/CDRH/UL	RoHS/FDA/TUV/UL/CE	RoHS compliance	FCC/FDA/CDRH/IEC	RoHS/FCC/FDA/IEC
Dimensions (mm)	56 × 13.4 × 8.5	56 × 13.4 × 8.5	47.45 × 14.29 × 8.6	56.55 × 13.9 × 8.5	118 × 18.35 × 8.5
Return Loss	NA	NA	< 12dB	< 12dB	NA
Power Supply Voltage	3.1V~3.4V	3.1V~3.4V	3.1V~3.4V	3.1V~3.4V	3.1V~3.4V
Supply Current	≤ 300mA	≤ 300mA	≤ 300mA	≤ 300mA	≤ 300mA
Operating Temperature	0°C-70°C	0°C-70°C	0°C-70°C	0°C-70°C	0°C-70°C



Model	40G-QSFP+-CWDM-10KM	100G-QSFP28-850nm-100m	100G-QSFP28-CWDM-2KM	100G-QSFP28-LAN WDM-10KM
Package Type	QSFP+	QSFP28	QSFP28	QSFP28
Data Rate	40Gbps	100Gbps	100Gbps	100Gbps
Connector Type	LC Duplex	MPO	LC Duplex	LC Duplex
Reference Distance	10km	100m	2km	10km
Fiber Type	Single-Mode	Multi-mode Fiber (OM3 or OM4)	Single-Mode	Single-Mode
Center Wavelength	CWDM	850nm	CWDM	LAN WDM
Transmitter Type (E/O)	DFB	VCSEL	DFB	DML
Application	40GBASE-LR4	100G SR4	100GBASE-CWDM4	100GBASE-LR4
Extinction Ratio	> 3.5dB	> 2dB	> 3.5dB	> 4dB
Average Launch Power	-6~-2.3dBm	-8.4~2.4dBm	-6.5~2.5 dBm	-4.3~4.5 dBm
Receiver Sensitivity	<-11.5dBm	<-5.2dBm (OMA)	NA	NA
Receiver Optical Overload	NA	>2.4dBm	NA	NA
Regulatory Certification	RoHS compliance	NA	RoHS/ FCC/FDA/IEC	FCC/FDA/CDRH/IEC
Dimensions (mm)	72.3 × 18.35 × 8.5	118.22 × 18.35 × 8.45	122.75 × 18.35 × 8.5	118.22 × 18.35 × 8.45
Return Loss	< 20dB	< 12dB	NA	NA
Power Supply Voltage	3.1V~3.4V	3.1V~3.4V	3.1V~3.4V	3.1V~3.4V
Supply Current	≤700mA	≤750mA	≤1120mA	≤1120mA
Operating Temperature	0°C-70°C	0°C-70°C	0°C-70°C	0°C-70°C

PRODUCT INTRODUCTION

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Desktop Appliances

Rackmount Appliances

Industrial Appliances

Whitebox Appliances

Telecom Appliances P91-97

SD-WAN UCPE VCPE

NFV Servers

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Network P29-32

Adapters&Modules

Network Adapters

Optical Modules





- ARM Rockchip RK3568 quad-core 64 bit Cortex-A55 processor
- 5 x GbE(network is independent MAC and PHY, non-switching chips)
- 8~512GB eMMC storage, support TF card, mSATA
- 1~8GB DDR4 memory optional
- Compliance with EMC, RoHS, CE, FCC
- Support 4G/5G expansion

Type	Parameter	Specification
Platform	CPU	ARM Rockchip RK3568 quad-core
	Base frequency	Up to 2.0GHz
	GPU	CPU integration
RAM	Type	DDR4 2400MHz, Non ECC
	Capacity	1~8GB
Network	Ports	5 x GbE RJ45
	Controller	2 x RTL8211FS, 3 x RTL8111H
	Bypass	2 pairs, GEN3, LAN2~LAN3, LAN4~LAN5 (optional)
Expansion	PCIE	N/A
	M.2	1 x M.2 for 4G/5G
	4G/5G	Optional
	SIM slot	1 x Micro SIM slot
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 3 x pin header
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0 OTG, 1 x USB3.0 OTG (built-in)
	Display	1 x HDMI (optional)
	GPIO	4
Storage	HDD/SSD	1 x mSATA
	eMMC	8~512GB eMMC FLASH storage optional
	TF	1 x TF expansion slot
Power	Power	AC 100~240V 50~60Hz, 24W, Power adapter
Control & Signal	Indicator	1 x Power, 1 x Status, 1 x customized (including power, HDD, ports, optional)
	RTC	Support RTC function
	Button	1 x Custom button
Cooling	Cooling method	CPU active cooler
Mechanic & Environment	Dimension	Desktop, 220 x 140 x 36 mm (W x D x H)
	Operating temperature	0°C ~ 40°C
	Storage environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5% ~ 95%, non-condensing
	Package	Double-layer neutral packaging (customized)
System & Software	Operation system	Android, Linux
	Software	GPIO/Bypass/Watchdog routines provided
Product certification	Certification	Compliance with EMC, RoHS, CE, FCC



- ARM Rockchip RK3568 quad-core 64 bit Cortex-A55 processor
- 3 x RJ45 GbE ports (controller is independent MAC and PHY, non-switching chips)
- Onboard 8 ~ 512GB eMMC storage, with additional support for TF card
- On board DDR4 memory: 1 ~ 8GB optional
- Support 4G/5G expansion
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification
Platform	CPU	ARM Rockchip RK3568 quad-core Cortex-A55
	Base frequency	Up to 2.0GHz
	GPU	CPU integrated
RAM	Type	DDR4 2400 MHz, Non ECC
	Capacity	1 ~ 8GB
Network	Ports	3 x GbE RJ45
	Controller	2 x RTL8211FS, 1 x RTL8111H
Expansion	PCIE	N/A
	M.2	1 x M.2 for 4G/5G (3042/3052)
	SIM slot	1 x Micro SIM slot (built-in)
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 3 x pin headers
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0 OTG
	Display	1 x HDMI (built-in)
	GPIO	4
Storage	HDD/SSD	N/A
	eMMC	8~512GB eMMC FLASH storage optional
	M.2	1 x M.2 for SSD (2280, NVME)
	TF	1 x TF expansion slot
Power	Power	AC 100~240V 50~60Hz, 24W, Power adapter
Control & Signal	Indicator	1 x power, 1 x status
	RTC	Support RTC function
	Button	1 x Custom button
Cooling	Cooling	CPU active cooler
Mechanic & Environment	Dimension	210 x 140 x 30 mm (W x D x H)
	Operating temperature	0°C ~ 40°C
	Storage environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5% ~ 95%, non-condensing
	Package	Double-layer neutral packaging (customized)
System & Software	Operation system	Android/Linux
	Software	GPIO/Bypass/Watchdog routines provided
Product certification	Certification	Compliance with EMC, RoHS, CE, FCC



- ARM Rockchip RK3568 quad-core 64 Cortex-A55 processor
- 4 x GbE RJ45
- Support rack-mount installation
- On board DDR4 memory: 1 ~ 4GB optional
- Support 4G/5G/WiFi expansion
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification
Platform	CPU	ARM Rockchip RK3568 quad-core Cortex-A55
	Base frequency	Up to 2.0GHz
	Chipset	SoC
RAM	Type	DDR4 2400 MHz, Non ECC
	Capacity	Max capacity: 4GB
	Memory	Onboard memory
Network	Ports	4 x GbE RJ45
	Controller	LAN1 ~ LAN2 (RTL 8211F), LAN3 ~ LAN4 (RTL 8111H)
	Bypass	N/A
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 1 x COM pin
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0 OTG
Expansion	M.2	2 x M.2 slot for 4G/5G
	SIM card	2 x Micro SIM slot
	miniPCle	1 x miniPCle (optional)
Storage	eMMC	1 x eMMC
	mSATA	1 x mSATA (optional)
	TF	1 x TF
Power	Power	Power adapter, AC 100~240V 50~60Hz, power input: 24W
TPM	TPM	Support
Control & Signal	Indicator	1 x HDD, 1 x power, 2 x 4G/5G indicator, 1 x WiFi
	Button	1 x Custom Button
Cooling	Cooling	CPU active cooler
Mechanic & environment	Dimensions	198 x 109 x 32mm (W x D x H)
	Operating temperature	0°C ~ 40°C
	Storage environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5 ~ 95%, non-condensing
System & Software	Operation system	Android/Linux
Product certification	Software	GPIO routines provided
	Certification	Compliance with EMC, RoHS, CE, FCC



- ARM Rockchip RK3568 quad-core Cortex-A55 processor
- 5 x GbE RJ45, 2 x Combo
- Support mSATA, TF, eMMC
- DDR4 memory: 1~8GB optional
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification
Platform	CPU	ARM Rockchip RK3568 quad-core Cortex-A55
	Base frequency	Up to 2.0GHz
	Chipset	SoC
RAM	Type	DDR4 2400 MHz, Non ECC
	Capacity	Max capacity: 8GB
	Memory	Onboard memory
Network	Ports	5 x GbE RJ45, 2 x Combo
	Controller	Combo1~Combo2 (RTL 8211FS) LAN1~LAN5 (RTL 8111H)
	Bypass	2 pairs, LAN2~LAN3, LAN4~LAN5
Expansion	miniPCle	1 x miniPCle
	M.2	1 x M.2 for 4G/5G
	WiFi	Optional
	SIM	1 x Micro SIM slot
I/O	Console	1 x RJ45 Console port (compatible with Cisco defined), 4 x pin headers
	USB	2 x USB2.0
	GPIO	2
Storage	HDD/SSD	N/A
	mSATA	1 x mSATA
	TF	1 x TF
	eMMC	8~512GB eMMC FLASH storage optional
Display	Display	1 x HDMI (optional)
Power	Power	Power adapter, AC 100~240V 50~60Hz, power input: 24W
Control & Signal	Indicator	1 x HDD, 1 x power, 2 x Bypass, 2 x User-defined
	Button	1 x Custom button
cooling	cooling	CPU active cooler
Mechanic & environment	Dimension	300 x 164.5 x 44mm (W x D x H)
	Operating temperature	0℃~40℃
	Storage environment	Storage temperature: -40℃~70℃, Storage humidity: 5~95%, non-condensing
System & Software	Operation system	Android/Linux
	Software	GPIO/Bypass/Watchdog routines provided
Product certification	certification	Compliance with EMC, RoHS, CE, FCC



- ARM Rockchip RK3568 quad-core 64 bit Cortex-A55 processor
- 5 x GbE RJ45, 1 x Combo (controller is independent MAC and PHY, non-switching chips)
- Onboard 8~512GB eMMC storage, with additional support for TF card and mSATA hard drive expansion
- DDR4 2400 RAM: 1 ~ 8GB
- Support 4G/5G/WiFi
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification
Platform	CPU	ARM Rockchip RK3568 quad-core Cortex-A55
	Base frequency	Up to 2.0GHz
	GPU	CPU integrated
RAM	Type	DDR4 2400MHz 1 ~ 8GB, Non ECC
Network	Ports	5 x GbE RJ45, 1 x Combo
	Controller	4 x RTL8111H (REALTEK), 2 x RTL8211FS (REALTEK PHY)
	Bypass	2 pairs optional (Gen3), LAN2 ~ LAN3, LAN4 ~ LAN5
Expansion	M.2	1 x M.2 for 4G/5G (mutually exclusive with SATA/mSATA)
	SIM slot	1 x SIM slot
	PCIe	1 x miniPCIe/PCIe X4
	WiFi	Support IEEE 802.11 Wi-Fi 5/6 (b/g/n/ac/ax), 2.4GHz & 5GHz, 4 x SMA ports
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 2 x pin headers
	USB	2 x USB 2.0
	GPIO	4
Storage	HDD/SSD	1 x mSATA (mutually exclusive with 5G functionality)
	eMMC	8~512GB eMMC FLASH storage optional
	TF	1 x TF card slot
Display	Display	1 x HDMI
Power	Power	AC 100~240V 50~60Hz, 24W, Power adapter
Control & Signal	Indicator	1 x HDD, 1 x power, 2 x Bypass (optional)
	Button	1 x Custom button
Cooling	Cooling	CPU active cooler
Mechanic & environment	Dimension	210 x 140 x 30 mm (W x D x H)
	Operating temperature	0°C ~ 40°C
	Storage environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5% ~ 95%, non-condensing
	Package	Double-layer neutral packaging (customized)
System & Software	Operation system	Android/Linux
	Software	GPIO/Bypass/Watchdog routines provided
Product certification	Certification	Compliance with EMC, RoHS, CE, FCC



- Intel® Bay Trail J1900/J1800
- 6 x GbE RJ45
- Support rackmounting
- DDR3/3L 1333/1600MHz SO-DIMM slot, up to 8GB
- Support 1 pair Bypass(Gen3)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification	
Platform	CPU	Intel® Bay Trail J1800 dual core	Intel® Bay Trail J1900 quad-core
	Base frequency	2.41GHz	2.0GHz
	BIOS	UEFI	
	Chipset	SoC	
RAM	Type	DDR3/3L 1333/1600Mhz Non ECC	
	Capacity	Up to 8GB	
	Slot	1 x DDR3/3L SO-DIMM	
Network	Ports	6 x GbE RJ45	
	Controller	6 x Intel® I210-AT	
	Bypass	1 pair optional (Gen3) , LAN3~LAN4	
Expansion	NIC expansion	N/A	
	miniPcle	1 x miniPCle	
	4G/5G/WiFi	Optional	
I/O	Console	1 x RJ45 Console (Comptible with Cisco defined)	
	USB	2 x USB2.0, 1 x USB2.0 pin header (1/2)	
	Display	1 x VGA (optional)	
	GPIO	4	
Storage	HDD/SSD	1 x SATA3.0 (2.5 HDD)	
	mSATA	1 x mSATA (mutually exclusive with CF card)	
	CF card	1 x Type II CF card (mutually exclusive with mSATA)	
Power	Power	Power adapter, AC 100~240V 50~60Hz, power input: 65W	
Control & Signal	Power switch	1 x Power switch	
	LED Indicator	1 x HDD, 1 x Power, 1 x Bypass (optional), 1 x customized (including power, HDD, Ethernet ports, Bypass)	
	Button	1 x Custom Button	
	Cooling fan	1 x system fan	
Cooling	Dimensions	Desktop, 288 x 164 x 44 mm (W x D x H)	
	Operation temperature	0 C ~ 40 C	
Mechanic & Environment	Storage environment	Storage temperature: -40 C ~ 70 C, Storage humidity: 5 ~ 95%, non-condensing	
	Package	Double-layer packaging (customized)	
	OS	Linux, FreeBSD9.2 or above, Windows7 or above	
System & Software	Software	GPIO/Bypass/Watchdog routines provided	
Product certification	Certifications	Compliance with EMC, RoHS, CE, FCC	



- ARM Phytium E2000 quad-core processor, up to 2.0GHz
- 8 x GbE RJ45, 2 x GbE RJ45/SFP Combo
- Support eMMC, TF
- DDR4 memory, maximum capacity 64GB, support both ECC and non-ECC
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification
Platform	CPU	ARM Phytium E2000 quad-core processor 2.0GHz
	Chipset	SoC
	UBIOS	UEFI
RAM	Type	DDR4, 2400MHz, ECC or non-ECC
	Capacity	Up to 64GB
Network	Ports	8 x GbE RJ45, 2 x GbE RJ45/SFP Combo
	Controller	6 x RTL8111H, 4 x RTL8211
	Bypass	1 pair(Gen3), LAN3~LAN4
Storage	eMMC	1 x eMMC
	TF	1 x TF
	HDD/SDD	N/A
	mSATA	N/A
I/O	Console	1 x RJ45 Console, 4 x COM pin headers
	USB	2 x USB2.0
	GPIO	8
	Display	1 x VGA (optional)
Expansion	M.2	1 x M.2 for 4G/5G
	miniPCle	1 x miniPCle
	SIM	1 x Micro SIM card slot
	Encryption	Encryption card expandable through miniPCle (USB 2.0)
Power	Power	AC 100~240V 50~60Hz, 60W, Power adapter
Control & Signal	Indicator	1 x Bypass, 1 x power, 1 x HDD, 1 x 4G/5G
	Button	1 x Custom button
Cooling	Cooling system	CPU active cooler
Mechanical & Environmental	Dimensions	230 x 176 x 44 mm (W x D x H)
	Operating temperature	0°C ~40°C
	Storage environment	Storage temperature: -40°C ~70°C Storage humidity: 5~95%, non-condensing
	Package	Double-layer neutral packaging (optional)
System & Software	OS	Kylin OS, Ubuntu
	Software	GPIO/Bypass/Watchdog sample code provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- Onboard Intel® N100 processor
- 6 x GbE RJ45
- Support mSATA/eMMC
- DDR5 SODIMM, up to 16GB
- Support 2 pairs of Bypass(Gen3)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification
Platform	CPU	Intel Alder Lake-N N100 quad-core
	Base frequency	1.8GHz
	BIOS	UEFI
	Chipset	SoC
RAM	Type	DDR5 4800MHz, Non-ECC
	Slot	DDR5 SO-DIMM
	Capacity	Up to 16GB
Network	Ports	6 x GbE RJ45
	Controller	6 x Intel® I210AT
	Bypass	2 pairs optional(Gen3), LAN3~LAN4, LAN5~LAN6
Expansion	miniPCle	1 x miniPCle
	M.2	2 × M.2 slots for 4G/5G modules (supporting dual SIM)
	4G/5G/WiFi	Optional
I/O	Console	1 x RJ45 Console (compatible with Cisco defined)
	USB	2 x USB2.0
	Display	1 x HDMI, 1 x VGA (optional)
	GPIO	8
Storage	HDD/SSD	N/A
	eMMC	1 x eMMC
	mSATA	1 x mSATA
Power	Power	Power adapter, AC 100~240V 50~60Hz, 60W
TPM	TPM	Support
Control & Signal	indicator	1 x Power, 1 x HDD, 2 x Bypass, 1 x 4G/5G/WiFi, 6 x LAN
	Power switch	N/A
	Button	1 x Custom button
Cooling	Cooling system	1 x System fan
Mechanical & Environmental	Dimensions	280 x 175 x 44 mm (W x D x H)
	Operating temperature	0℃~40℃
	Storage environment	Storage temperature: -40℃~70℃, Storage humidity: 5%~95%,non-condensing
	Package	Double-layer neutral packaging (customized)
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC, RoHS,CE, FCC



- Intel Atom® Processor C3000 Series
- 2 x GbE RJ45, 4 x 2.5GbE RJ45, 2 x Combo
- Support rackmount installation
- Desktop Network hardware Appliance
- DDR4 2133/2400 MHz SO-DIMM, Max. Capacity 64GB
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification			
Platform	CPU	C3338R dual-core	C3558R quad-core	C3758R octa-core	Support Intel Atom® Processor C3000 Series
	Base frequency	1.8GHz	2.4GHz	2.4GHz	referred to specific CPU type
	BIOS	UEFI			
	Chipset	SoC			
RAM	Type	2 x DDR4 2133/2400 MHz, SO-DIMM, ECC/Non ECC			
	Capacity	Max. Capacity 64GB			
Network	Ports	2 x GbE RJ45, 4 x 2.5GbE RJ45, 2 x Combo			
	Controller	2 x Marvell 88E1514, 4 x Intel® I226-V, 1 x Marvell 88E1543			
	Bypass	GEN3, LAN1 ~ LAN2, LAN3 ~ LAN4, LAN5 ~ LAN6			
Expansion	NIC	N/A			
	miniPCle	1 x miniPCle			
	SIM	2 x Micro SIM Slot			
	M.2	1 x M.2 for 4G/5G, 1 x M.2 for WiFi			
	4G/5G/WiFi	Support (Optional)			
I/O	Console	1 x RJ45 Console, 1 x pin header			
	USB	2 x USB2.0			
	GPIO	8			
Storage	HDD/SSD	1 x 2.5"SATA HDD			
	eMMC	1 x eMMC			
	mSATA	1 x mSATA			
Power	Power	Built-in single power, AC 100~240V 50~60Hz, 65W			
Control & Signal	Indicator	1 x HDD, 1 x Power, 1 x GPIO, 3 x Bypass (Optional), 1 x SOHO special pair (Power, HDD, Port, Bypass LED, Optional)			
	Power switch	1 x Power switch			
	Button	1 x Custom button			
Cooling	Cooling fan	1 x System Fan			
Mechanic & Environment	Platform	Desktop, 310 x 203 x 44 mm (W x D x H)			
	Operating temperature	0℃ ~ 40℃			
	Storage humidity	Storage Temperature: -40℃ ~ 70℃, Storage Humidity: 5 ~ 95%, non-condensing			
	Package	Double-layer packaging (customized)			
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later			
	Software	GPIO/Bypass/Watchdog routines provided			
Product Certification	Certifications	Compliance with EMC, RoHS, CE, FCC			



- Intel Atom® Processor C3000 Series
- 2 x GbE RJ45, 4 x 2.5GbE RJ45, 2 x Combo
- Support rackmount
- Desktop hardware platform
- DDR4 2133/2400 MHz SO-DIMM slot, up to 64GB
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification			
Platform	CPU	C3338R dual-core	C3558R quad-core	C3758R octa-core	Support Intel Atom® Processor C3000 Series
	Base frequency	1.8GHz	2.4GHz	2.4GHz	referred to specific CPU type
	BIOS	UEFI			
	Chipset	SoC			
RAM	Type	2 x DDR4 2133/2400 MHz, SO-DIMM, ECC/Non ECC			
	Capacity	Up to 64GB			
Network	Ports	2 x GbE RJ45, 4 x 2.5GbE RJ45, 2 x Combo			
	Controller	2 x Marvell 88E1514, 4 x Intel® I226-V, 1 x Marvell 88E1543			
	Bypass	3 pairs, GEN3, LAN1~LAN2, LAN3~LAN4, LAN5~LAN6 (optional, no defaulted)			
Expansion	NIC expansion	N/A			
	miniPCle	2 x miniPCle			
	SIM card	2 x Micro SIM Slot			
	M.2	1 x M.2 for 4G/5G, 1 x M.2 for WiFi			
	4G/5G/WiFi	Optional			
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 1 x pin header			
	USB	2 x USB2.0			
	GPIO	8			
Storage	SATA	1 x SATA3.0 (2.5HDD)			
	eMMC	1 x eMMC(16GB defaulted)			
	mSATA	1 x mSATA			
Power	Power	Power adapter, AC 100~240V 50~60Hz, power input: 60W			
Control & Signal	Indicator	1 x HDD, 1 x Power, 1 x GPIO, 2 x Combo, 3 x Bypass (optional) 1 x customized (including power, HDD, port, Bypass, optional)			
	Power switch	1 x Power switch			
	Button	1 x Custom button			
Cooling	Cooling system	1 x System fan			
Mechanic & Environment	Dimensions	Desktop, 300 x 203 x 44 mm (W x D x H)			
	Operating temperature	0°C ~ 40°C			
	Storage environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5 ~ 95%, non-condensing			
	Package	Double-layer neutral packaging (optional)			
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later			
	Software	GPIO/Bypass/Watchdog sample code provided			
Product Certification	Certifications	Compliance with EMC, RoHS, CE, FCC			



- Intel Atom® C processor, supports QAT
- 6 x GbE RJ45, or 4 x GbE RJ45 + 2 x GbE SFP
- Built-in eMMC and M.2 SSD storage, expandable via SATA for greater capacity
- DDR4 2133/2400 memory, maximum capacity 32GB
- Support dual 4G LTE and Wi-Fi
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification		
Platform	CPU	C3558R	C3338R	Intel Atom®C Series (CPU optional)
	Base frequency	2.4GHz	1.8GHz	Refer to the specific CPU
	Chipset	SoC		
RAM	Type	Support DDR4 2133/2400 MHz		
	Capacity	Max capacity: 32GB		
	Slot	1 x DDR4 SO-DIMM		
Network	Ports	6 x GbE RJ45 or 4 x GbE RJ45, 2 x GbE SFP		
	Controllers	2 x Intel® I210-AT/I210-AS, 1 x Marvell 88E1543		
	Bypass	2 pairs (GEN3), LAN3~LAN4, LAN5~LAN6		
Expansion	PCIe	N/A		
	miniPCIe	1 x miniPCIe		
	M.2	2 x M.2 for 4G/5G		
	SIM	2 x Micro SIM card slot		
	WiFi	Optional		
Storage	HDD/SSD	Optional		
	mSATA	N/A		
	eMMC	1 x eMMC		
	M.2	1 x M.2 (SATA)		
I/O	Console	1 x RJ45 Console		
	USB	Upper: 1 x USB3.0, Lower: 1 x USB3.0		
	GPIO	4		
Control & Signal	Indicator	Refer to the interface layout for details		
	Button	1 x Custom button		
	Cooling	CPU active cooler		
Power	Type	AC 100~240V 50~60Hz, 60W, Power adapter		
Mechanical & Environmental	Dimensions	240 x 200 x 44 mm (W x D x H)		
	Operating temperature	0°C ~ 40°C		
	Storage environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5% ~ 95%, non-condensing		
TPM	TPM	Support		
System & Software	OS	Linux, FreeBSD9.2 or later, Windows.7 or later		
	Software	GPIO/Bypass/Watchdog routines provided		
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC		



- ARM Rockchip RK3568 quad-core 64 bit Cortex-A55 processor
- 5 x GbE RJ45
- 8~512GB eMMC FLASH storage optional, support SATA3.0 HDD expansion, TF
- DDR4 memory: 1~8GB optional
- Support 4G/5G/WiFi
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification
Platform	CPU	ARM Rockchip RK3568 quad-core
	Base frequency	Up to 2.0GHz
	GPU	CPU integrated
RAM	Type	DDR4 2400MHz 1~8GB Non ECC
Network	Port	5 x GbE RJ45
	Controller	2 x YT8531SC(Motorcomm), 3 x RTL8111H(REALTEK)
	Bypass	2 pairs optional (Gen3), LAN2~LAN3, LAN4~LAN5
Expansion	M.2	1 x M.2 for 4G/5G (mutually exclusive with mSATA)
	PCIe	Built-in PCIe expansion optional
	SIM slot	1 x Micro SIM slot
	miniPCIe	1 x miniPCIe (optional)
	WiFi	Optional
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 2 x pin header
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0 OTG
	GPIO	4
Storage	HDD/SSD	1 x 2.5"/3.5" SATA HDD / 1 x mSATA (mutually exclusive with 5G functionality)
	eMMC	8~512GB eMMC FLASH storage optional
	TF	1 x TF expansion card
Encryption	Encryption	Support Cisco encryption chips (optional)
Display	Display	N/A
Power	Power	Built-in single power, AC 100~240V 50~60Hz
Control & Signal	Indicator	1 x HDD, 1 x Power, 1 x Bypass, 1 x 4G/5G, 1 x WiFi (optional)
	Button&Switch	1xcustom Button, 1xProgramming Button
Power consumption	Power consumption	25W
Cooling	Cooling method	CPU active cooler
Mechanic & Environment	Dimension	430 x 300 x 44 mm (W x D x H)
	Operating temperature	0℃~40℃
	Storage environment	Storage temperature: -40℃~70℃, storage humidity: 5%~95%, non-condensing
	Package	Double-layer neutral packaging (customized)
System & Software	Operation system	Android/Linux
	Software	GPIO/Bypass/Watchdog routines provided
Product certification	Certification	Compliance with EMC, RoHS, CE, FCC



- ARM Rockchip RK3568 quad-cores 64 bit Cortex-A55 processor
- 3 x GbE RJ45, 2 x Combo(network chip is consisted of independent MAC and PHY, non-switching chip)
- Onboard 8 ~ 512GB eMMC FLASH storage optional,support TF card, SATA, mSATA
- Onboard 1 ~ 8GB DDR4 memory optional
- Support 4G/5G/WiFi expansion
- EMC, RoHS, CE and FCC Certificate Compliance

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 quad-cores
	Frequency	Up to 2.0GHz
	GPU	CPU integration
Memory	Type	Onboard DDR4 2400MHz 1 ~ 8GB Non ECC
Network	Interface	3 x GbE RJ45 independent giga electric ports , 2 x Combo
	Network chip	3 x RTL8111H , 2 x YT8531SC
	Bypass	1set optional (Gen3) , LAN3 ~ LAN4
Expansion	M.2	1 x M.2 for 4G/5G (mutually exclusive with SATA)
	SIM slot	1 x Micro SIM slot
	miniPCle	1 x miniPCle (optional)
	WiFi	Support IEEE 802.11 Wi-Fi 5/6 (b/g/n/ac/ax) , 2.4GHz& 5GHz dual frequency , 4 x SMA ports
I/O	Console	1 x RJ45 Console (compatible with Cisco defined) , 3 x onboard pin
	USB	2 x USB2.0
	GPIO	6
Storage	HDD/SSD	1 x 2.5"/3.5" SATA HDD/1 x mSATA (one of the alternatives, mutually exclusive with 5G function)
	eMMC	Onboard 8 ~ 512GB eMMC FLASH storage optional
	TF	1 x TF expansion card
Encryption	Encryption	Support onboard HSC (optional)
Display	Display	N/A
Power supply	Power	AC 100~240V 50~60Hz, 25W single power (optional)
Control & Signal	Indicator	1 x HDD indicator light, 1 x power indicator light, 1 x Bypass indicator light, (optional)
	Button&Switch	1 x Custom Button, 1 x Power Switch
Cooling	Cooling method	1 x system fan
Mechanic & Environment	Dimensions	19 inch 1U rackmount, 430 x 300 x 44 mm (W x D x H)
	Operating temperature	0 C ~ 40 C
	Storage environment	Storage temperature: -40 C ~ 70 C , Storage humidity: 5% ~ 95%,non-condensing
	Packages	Double-layer neutral packaging (customized)
Operation System & Software	Operation System	Android/Linux
	Software	UBOOT/GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- ARM Rockchip RK3568 quad-cores 64 bit Cortex-A55 processor
- 8 x GbE RJ45, 2 x Combo (network chip is consisted of independent MAC and PHY, non-switching chip)
- Onboard 8~512GB eMMC FLASH storage optional, support TF card, SATA, mSATA
- Onboard 1~8GB DDR4 memory optional
- Support 4G/5G/WiFi expansion
- EMC, RoHS, CE and FCC Certificate Compliance

Type	Parameter	Specification
Platform	CPU	ARM Rockchip RK3568 quad-core
	Frequency	Up to 2.0GHz
	GPU	CPU integration
Memory	Type	Onboard DDR4 2400MHz 1~8GB Non ECC
Network	Interface	8 x GbE RJ45 independent giga electric ports, 2 x Combo
	Network chip	8 x RTL8111H, 2 x YT8531SC/RTL8211FS
	Bypass	4 pairs optional (Gen3), LAN1~LAN2, LAN3~LAN4, LAN5~LAN6, LAN7~LAN8
Expansion	M.2	1 x M.2 for 4G/5G (mutually exclusive with SATA)
	SIM slot	2 x Micro SIM slot
	PCIe	1 x PCIe expansion slot/1 x miniPCIe expansion slot (mutually exclusive)
	miniPCIe	1 x miniPCIe
	WiFi	Support IEEE 802.11 Wi-Fi 5/6 (b/g/n/ac/ax), 2.4GHz& 5GHz double frequency, 4 x SMA ports
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 3 x onboard pin
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0 OTG, 2 x USB2.0 onboard pin
	GPIO	2
Storage	HDD/SSD	1 x 2.5"/3.5"SATA HDD /1 x mSATA (one of the alternatives, mutually exclusive with 5G function)
	eMMC	Onboard 8~512GB eMMC FLASH storage optional
	TF	1 x TF expansion card
Encryption	Encryption	Support onboard HSC (optional)
Display	Display	N/A
Power supply	Power	AC 100~240V 50~60Hz, 25W(standard, single power supply) Single, Dual and Redundant Power Supply (optional)
Control & Signal	Indicator	1 x HDD indicator light, 1 x power indicator light, 4 x Bypass indicator light, 1 x customized indicator light, (optional)
	Button&Switch	1 x Custom Button, 1 x Power Switch
Cooling	Cooling method	1 x System fan
Mechanic & Environment	Dimensions	19 inch 1U rackmount, 430 x 300 x 44 mm (W x D x H)
	Operating temperature	0 C~40 C
	Storage environment	Storage temperature: -40 C~70 C, Storage humidity: 5%~95%, non-condensing
	Packages	Double-layer neutral packaging (customized)
Operation System & Software	Operation System	Android/Linux
	Software	UBOOT/GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- ARM Rockchip RK3568 quad-core 64 bit Cortex-A55 processor
- 4 x GbE RJ45, 2 x Combo (network chip is consisted of independent MAC and PHY, non-switching chip)
- Onboard 8 ~ 512GB eMMC FLASH storage optional, support TF card, SATA, mSATA
- Onboard 1 ~ 8GB DDR4 memory optional
- Support 4G/5G/WiFi expansion
- EMC, RoHS, CE and FCC Certificate Compliance

Type	Parameter	Specification
Platform	CPU	ARM Rockchip RK3568 quad-core
	Frequency	Up to 2.0GHz
	GPU	CPU integration
Memory	Type	Onboard DDR4 2400MHz 1~8GB Non ECC
Network	Interface	4 x GbE RJ45 independent giga ports, 2 x Combo
	Network chip	4 x I210AT, 2 x RTL8211FS
	Bypass	2 pairs optional (Gen3), LAN3 ~ LAN4, LAN5 ~ LAN6
Expansion	miniPCle	1 x miniPCle
	4G/5G	Support (optional)
	SIM slot	1 x Micro SIM slot
	WiFi	Support IEEE 802.11 Wi-Fi 5/6 (b/g/n/ac/ax), 2.4GHz & 5GHz dual frequency, 4 x SMA ports
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 2 x onboard pin
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0 OTG, 2 x USB2.0 onboard pin
	GPIO	6
Storage	HDD/SSD	1 x 2.5"/3.5"SATA HDD / 1 x mSATA (one of the alternatives, mutually exclusive with 5G function)
	eMMC	Onboard 8 ~ 512GB eMMC FLASH storage optional
	TF	1 x TF slot
Encryption	Encryption	Support onboard HSC (optional)
Display	Display	N/A
Power supply	Power	AC 100~240V 50~60Hz, Single, 25W(standard, single power supply), Dual and Redundant Power Supply (optional)
Control & Signal	Indicator	1 x HDD indicator light, 1 x power indicator light, 2 x Bypass indicator light, 2 x customized indicator light (optional)
	Button	1 x Custom button
Cooling	Cooling method	1 x System fan
Mechanic & Environment	Dimensions	1U rackmount, 430 x 300 x 44 mm (W x D x H)
	Operating temperature	0°C ~ 40°C
	Storage environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5% ~ 95%, non-condensing
	Packages	Double-layer neutral packaging (customized)
System and software	Operation System	Android/Linux
	Software	UBOOT/GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- ARM Rockchip RK3568 quad-core Cortex-A55 processor
- 10 x GbE RJ45, 8 x GbE SFP, 4 x 10GbE SFP+
- Support SATA, mSATA, TF, eMMC
- DDR4 2400 RAM: 1 ~ 8GB
- Support 4G/5G/WiFi
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification
Platform	CPU	ARM Rockchip RK3568 quad-core Cortex-A55
	Frequency	2.0 GHz
	Chipset	NF5180
RAM	RAM	DDR4 2400MHz
	Capacity	1 ~ 8GB
Network	Ports	10 x GbE RJ45, 8 x GbE SFP, 4 x 10GbE SFP+
	Controllers	LAN1 ~ LAN2: RK3568 MAC + RTL8211F PHY LAN3 ~ LAN10: NF5180 MAC + NF1008 PHY SFP1 ~ SFP8: NF5180 MAC + YT8614QC PHY SFP+1 ~ SFP+4: NF5180 MAC
	Bypass	4 pairs, (Gen3) LAN3 ~ LAN4, LAN5 ~ LAN6, LAN7 ~ LAN8, LAN9 ~ LAN10
Storage	mSATA	1 x mSATA (mutually exclusive with SATA)
	HDD/SSD	1 x 2.5"/3.5" SATA HDD
	TF	1 x TF card slot
	eMMC	1 x eMMC
I/O	Console	1 x RJ45 Console
	USB	Upper: 1 x USB2.0, Lower: 1x USB2.0 OTG
	WiFi	Optional
	GPIO	4
	Display	1 x HDMI
Expansion	miniPCle	1 x miniPCle
	M.2	1 x M.2 for 4G/5G
	SIM	1 x Micro SIM
Power	Power	Single/Dual Power Supply (optional), AC 100~240V 50~60Hz, 65W(standard, single power supply)
Control & Signal	Indicator	4 x Bypass, 1 x 4G/5G, 1 x WiFi, 1 x HDD, 1 x power, 1 x customized
	Button&Switch	1 x Custom Button, 1 x Power Switch
Cooling	Cooling fan	1 x System fan
Mechanic & environment	Dimensions	430 x 300 x 44mm (W x D x H)
	Operating temperature	0℃ ~ 40℃
	Storage environment	Storage temperature: -40℃ ~ 70℃, Storage humidity: 5 ~ 95%, non-condensing
	Packaging	Double-central packaging (customized)
System & Software	OS	Android/Linux
	Software	GPIO/Bypass/Watchdog routines provided
Product certification	Certification	Compliance with EMC, RoHS, CE, FCC



- ARM Rockchip RK3568 quad-core Cortex-A55 processor
- 1 x GbE RJ45, 8 x Gigabit Switch Ports, 2 x Gigabit Combo Ports
- Support SATA, mSATA, TF, eMMC
- DDR4 memory: 1 ~ 8GB optional
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification
Platform	CPU	ARM Rockchip RK3568 Quad-core Cortex-A55
	Base frequency	Up to 2.0GHz
	Chipset	SoC
RAM	Type	DDR4 2400 MHz Non ECC
	Capacity	MAX. Capacity 8GB
	Memory	Onboard Memory
Network	Port	1 x GbE RJ45, 8 x Gigabit Switch Ports, 2 x Gigabit Combo Ports
	Controller	LAN1 (YT8531) LAN2~LAN9 (YT9215) COMBO1~COMBO2 (YT8531)
	Bypass	2 pairs, LAN6~LAN7, LAN8~LAN9
Expansion	miniPCle	1 x miniPCle
	M.2	1 x M.2 for 4G/5G, support 3042/3052 module
	SIM	1 x Micro SIM card slot
	4G/5G/WiFi	Optional
I/O	Console	1 x RJ45 Console (compatible with Cisco defined)
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0 OTG
	GPIO	4
Storage	HDD/SSD	1 x 2.5"/3.5"SATA HDD
	mSATA	1 x mSATA (mutually exclusive with SATA)
	TF	1 x TF
	eMMC	1 x eMMC
Display	Display	N/A
Power	Power	Default 25W single power supply (supports dual power supply), AC 100-240V 50-60Hz
Control & Signal	Indicator	1 x HDD, 1 x power, 1 x custom, 2 x Bypass, 4G/5G/WiFi
	Button	1 x Custom Button
Mechanical & Environmental	Dimension	440 x 300 x 44 mm (W x D x H)
	Operating temperature	0℃ ~ 40℃
	Storage environment	Storage temperature: -40℃ ~ 70℃, storage humidity: 5~95%, non-condensing
System & Software	OS	Android/Linux
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- ARM Rockchip RK3568 quad-core
- Onboard 1~8GB DDR4 memory optional
- 6 x GbE RJ45, 2 x GbE SFP or 8 x GbE RJ45
- Support level 2 hardware encryption
- Onboard 8~512GB eMMC FLASH storage optional, support TF card, SATA/mSATA
- EMC, RoHS, CE and FCC Certificate Certificate Compliance

Type	Parameter	Specification
Platform	CPU	ARM Rockchip RK3568 quad-core
	Frequency	Up to 2.0GHz
	GPU	CPU integration
Memory	Type	Onboard DDR4 2400MHz 1~8GB Non ECC
Network	Ports	6 x GbE RJ45, 2 x GbE SFP / 8 x GbE RJ45
	Network controller	6 x RTL8111H, 2 x RTL8211FS
	Bypass	2 pairs optional (Gen3), LAN3~LAN4, LAN5~LAN6
Expansion	PCIe	Built-in PCIe expansion (optional)
	4G/5G	N/A
	WiFi	N/A
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 2 x onboard pin
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0 OTG, 1x USB2.0 onboard pin
	GPIO	4
Storage	HDD/SSD	1 x 2.5"/3.5"SATA HDD
	mSATA	1 x mSATA (mutually exclusive with SATA)
	eMMC	Onboard 8~512GB eMMC FLASH storage optional (8GB defaulted)
	TF	1 x TF extension slot
Encryption	Encryption	Support onboard HSC (optional)
Display	Display	N/A
Power supply	Power	AC 100~240V 50~60Hz, 65W(standard, single power), Single/Dual/Redundant Power Supply(optional)
Button	Button&Switch	1 x Custom Button, 1 x Power Switch
Control & signal	Indicator	1 x HDD indicator light, 1 x power indicator light, 2 x Bypass indicator light, 2 x customized indicator light (optional)
Cooling	Cooling method	1 x System fan
Mechanic & Environment	Dimension	1U rackmount, 430 x 300 x 44 mm (W x D x H)
	Operating temperature	0 C~40 C
	Storage environment	Storage temperature: -40 C~70 C, Storage humidity: 5%~95%,non-condensing
	Packages	Double-layer neutral packaging (customized)
System & software	Operating system	Android/Linux
	Software	UBOOT/GPIO/Watchdog/Bypass routines provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- ARM Rockchip RK3568 quad-core 64 bit Cortex-A55 processor
- EMC, RoHS, CE and FCC Certificate Compliance
- 6 x GbE RJ45, 2 x GbE SFP / 8 x GbE RJ45
- Onboard 1~8GB DDR4 memory optional
- Support eMMC, TF card, SATA, mSATA
- Onboard hardware encryption

Type	Parameter	Specification
Platform	CPU	ARM Rockchip RK3568 quad-core
	Frequency	Up to 2.0GHz
	GPU	CPU integration
Memory	Type	Onboard DDR4 2400MHz 1~8GB Non ECC
Network	Ports	6 x GbE RJ45, 2 x GbE SFP / 8 x GbE RJ45
	Network chips	6 x RTL8111H, 2 x RTL8211FS
	Bypass	2 set optional (Gen3) , LAN3~LAN4, LAN5~LAN6
Expansion	PCIe	Built-in PCIe expansion (optional)
	4G/5G	N/A
	WiFi	N/A
I/O	Console	1 x RJ45 Console (compatible with Cisco defined) , 2 x onboard pin
	USB	Upper: 1 x USB2.0, Lower: 1x USB3.0 OTG
	GPIO	4
Storage	HDD/SSD	2 x 2.5"/3.5"SATA HDD
	mSATA	1 x mSATA (mutually exclusive with SATA)
	eMMC	Onboard 8~512GB eMMC FLASH storage optional
	TF	1 x TF slot
Encryption	Encryption	Support onboard HSC encryption chip (optional)
Display	Display	N/A
Power Supply	Power	AC 100~240V 50~60Hz, 100W(standard, single power), Single, Dual and Redundant Power Supply (optional)
Switch	Switch	1 x Power Switch
Control & Signal	Indicator	1x HDD, 1 x power, 1 x custom
Cooling	Cooling method	2 x system fans
Mechanic & Environment	Dimension	2U rackmount, 430 x 450 x 88 mm (W x D x H)
	Operating temperature	0 C ~ 40 C
	Storage environment	Storage temperature: -40 C ~ 70 C, Storage humidity: 5% ~ 95%, non-condensing
	Packages	Double-layer neutral packaging (customized)
System & software	Operating system	Android/Linux
	Software	UBOOT/GPIO/Watchdog/Bypass routines provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- ARM Rockchip RK3568 quad-core 64 bit Cortex-A55 processor
- 2 x GbE RJ45
- Support SATA , mSATA , eMMC , TF
- Onboard DDR4 2400 memory, up to 8GB
- 4 x USB3.0, 6 x USB2.0
- EMC, RoHS, CE and FCC Certificate Compliance

Type	Parameter	Specification
Platform	CPU	ARM Rockchip RK3568 quad-core Cortex-A55
	Frequency	Up to 2.0GHz
	Chipset	SoC
Memory	Type	DDR4 2400 MHz Non ECC
	Capacity	Up to 8GB
	Memory	Onboard memory
Network	Ports	2 x GbE RJ45
	Network chips	2 x RTL 8211FS
	Bypass	N/A
Expansion	M.2	1 x M.2 for 4G/5G
	SIM	1 x Micro SIM slot
I/O	Console	1 x RJ45 Console port (compatible with Cisco defined) , 5 x COM onboard pin
	USB	4 x USB3.0, 6 x USB2.0
	GPIO	2
Storage	HDD/SSD	1 x 2.5"/3.5"SATA HDD
	mSATA	1 x mSATA (mutually exclusively with SATA)
	TF	1 x TF
	eMMC	1 x eMMC
Display	Display	N/A
Power supply	Power	Single/Dual/Redundant Power Supply (optional), 25W, AC 100~240V 50~60Hz
Control & signal	Indicator	1 x HDD indicator light, 1 x power indicator light, 1 x customized indicator light
	Button&Switch	1 x Custom Button, 1 x Power Switch
Mechanic & Environment	Dimension	1U rackmount, 430 x 300 x 44 mm (W x D x H)
	Operating temperature	0 C ~ 40 C
	Storage environment	Storage temperature: -40 C ~ 70 C , Storage humidity: 5~95%,non-condensing
System & software	Operating system	Linux, FreeBSD9.2 or later, Windows7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- Intel® N100 processor
- 6 x GbE RJ45
- Support HDD/mSATA/eMMC
- DDR5 SO-DIMM, up to 16GB
- Support 2 pairs of Bypass(Gen3)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification
Platform	CPU	Intel Alder Lake-N N100 quad-core
	Base frequency	1.8GHz
	BIOS	UEFI
	Chipset	SoC
RAM	Type	DDR5 4800 MHz, Non ECC
	Slot	DDR5 SO-DIMM
	Capacity	Up to 16GB
Network	Ports	6 x GbE RJ45
	Controller	6 x Intel® I210AT
	Bypass	2 pairs optional(Gen3), LAN3~LAN4, LAN5~LAN6
I/O	miniPCle	1 x miniPCle
	M.2	2 x M.2 for 4G/5G (support dual SIM)
	4G/5G/WiFi	Optional
Expansion	Console	1 x RJ45 Console (compatible with Cisco defined)
	USB	2 x USB2.0
	Display	1 x HDMI, 1 x VGA(optional)
	GPIO	8
Storage	HDD/SSD	1 x 2.5"/3.5"SATA HDD
	eMMC	1 x eMMC
	mSATA	1 x mSATA slot
Power	TPM	Support
TPM	Power	Built-in single power, 65W(standard, single power) , AC 100~240V 50~60Hz
Control & Signal	Indicator	1 x HDD, 1 x power, 2 x Bypass(optional)
	Power switch	N/A
	Button	1 x custom button
Cooling	Cooling system	1 x system fan
Mechanical & Environmental	Dimensions	430 x 300 x 44 mm (W x D x H)
	Operating temperature	0℃~40℃
	Storage environment	Storage temperature: -40℃~70℃, Storage humidity: 5%~95%,non-condensing
	Package	Double-layer neutral packaging (customizable)
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC, RoHS,CE, FCC



- ARM Phytium E2000Q processor
- 6 x GbE RJ45 , 2 x Combo, 2 x 10GbE SFP+
- Support SATA, mSATA, TF, eMMC
- DDR4 memory , up to 64GB
- Compliance with EMC , RoHS , CE , FCC

Type	Parameter	Specification
Platform	CPU	ARM Phytium E2000Q quad-core 2.0GHz
	Chipset	SoC
	UBIOS	UEFI
RAM	Type	DDR4 , 2400MT/S ECC/Non ECC
	Capacity	Up to 64GB
Network	Ports	6 x GbE RJ45 , 2 x Combo, 2 x 10GbE SFP+
	Controller	LAN1~LAN2: RTL8111H, LAN3~LAN6: WX1860A4, Combo1~Combo2: YT8531SC, SFP+1~SFP+2: CPU output
	Bypass	2 pairs (Gen3) , LAN3~LAN4, LAN5~LAN6
Storage	HDD/SSD	1 x 2.5"/3.5"SATA HDD
	mSATA	1 x mSATA (mutually exclusive with SATA)
	TF	1 x TF
	eMMC	1 x eMMC
I/O	Console	1 x RJ45, 2 x COM pin header
	USB	2 x USB2.0
	GPIO	8
	Display	N/A
Expansion	PCIe	Built-in PCIe expansion (optional)
	M.2	1 x M.2 (4G/5G)
	SIM	1 x Micro SIM slot
Power	Power	Support single power, 65W, AC 100~240V 50~60Hz
Control & Signal	Indicator	2 x Bypass, 1 x power, 1 x operation
	Power switch	1 x power switch
	Button	1 x custom button
Cooling	Cooling fan	1 x system fan
Mechanic & Environment	Dimensions	1U rackmount, 440 x 300 x 44 mm (W x D x H)
	Operating temperature	0℃~40℃
	Storage environment	Storage temperature: -40℃~70℃, Storage humidity: 5~95%,non-condensing
	Package	Double-layer neutral packaging (optional)
System & Software	OS	Kylin OS, Ubuntu
	Software	Bypass/GPIO sample code provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- Intel® Bay Trail J1900/J1800 processor
- 6 x GbE RJ45
- Support CF/mSATA/SATA
- DDR3/3L 1333/1600MHz SO-DIMM slot, up to 8GB
- Support 1 pairs Bypass(Gen3)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification	
Platform	CPU	Intel® Bay Trail J1800 dual core	Intel® Bay Trail J1900 quad core
	Base frequency	2.41GHz	2.0GHz
	BIOS	UEFI	
	Chipset	SoC	
RAM	Type	DDR3/3L 1333/1600Mhz Non ECC	
	Capacity	Up to 8GB	
	Slot	1 x DDR3/3L SO-DIMM	
Network	Ports	6 x GbE RJ45	
	Controller	6 x Intel® I210-AT	
	Bypass	1 pair optional (Gen3), LAN3~LAN4	
Expansion	NIC expansion	1 x NIC Network expansion module	
	miniPCle	1 x miniPCle	
I/O	Console	1 x RJ45 Console (compatible with Cisco defined)	
	USB	Upper: 1 x USB2.0, Lower: 1x USB3.0, 1 x USB2.0 pin header (1/2)	
	Display	1 x VGA (optional)	
	GPIO	4	
Storage	HDD/SSD	1 x SATA3.0 (2.5/3.5 HDD, optional)	
	mSATA	1 x mSATA (mutually exclusive with CF card)	
	CF card	1 x Type II CF card (mutually exclusive with mSATA)	
Power	Power	AC 100~240V 50~60Hz, 65W(standard, single power supply), Single/Dual Power Supply (optional)	
Control & Signal	LED Indicator	1 x HDD, 1 x Power, 1 x Bypass (optional)	
	Power switch	1 x Power switch	
	Button	1 x Custom button	
Cooling	Cooling fan	1 x System fan	
Mechanic & Environment	Dimensions	1U rackmount, 430 x 360 x 44 mm (W x D x H)	
	Operation temperature	0℃~40℃	
	Storage environment	Storage temperature: -40℃~70℃, Storage humidity: 5~95%,non-condensing	
	Package	Double-layer packaging (customized)	
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later	
	Software	GPIO/Bypass/Watchdog routines provided	
Product Certification	Certifications	Compliance with EMC, RoHS, CE, FCC	



- Intel® Bay Trail J1900/J1800 processor
- 6 x GbE RJ45
- Support mSATA/SATA
- DDR3/3L 1333/1600MHz SO-DIMM slot, up to 8GB
- Support 2 pairs Bypass(Gen3)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification	
Platform	CPU	Intel® Bay Trail J1800 dual core	Intel® Bay Trail J1900 quad core
	Base frequency	2.41GHz	2.0GHz
	BIOS	UEFI	
	Chipset	SoC	
RAM	Type	DDR3/3L 1333/1600MHz Non ECC	
	Capacity	Up to 8GB	
	Slot	1 x DDR3/3L SO-DIMM	
Network	Ports	6 x GbE RJ45	
	Controller	6 x RTL8111H	
	Bypass	2 pairs optional (Gen3), LAN3 ~ LAN4, LAN5 ~ LAN6	
Expansion	PCIe expansion	1 x PCIe 4X (x1) expansion module	
	miniPCIe	N/A	
I/O	Console	1 x RJ45 Console (compatible with Cisco defined)	
	USB	Upper: 1 x USB2.0, Lower: 1x USB3.0, 1 x USB2.0 pin header	
	Display	1 x VGA	
	GPIO	8	
Storage	HDD/SSD	1 x 2.5"/3.5"SATA HDD	
	mSATA	1 x mSATA	
	CF card	N/A	
Power	Power	AC 100~240V 50~60Hz, 100W(standard, single power supply), Single/Dual Power Supply/DC 12V(optional)	
Control & Signal	Indicator	1 x HDD, 1 x Power, 2 x Bypass (optional)	
	Power switch	1 x Power switch	
	Button	1 x Custom button	
Cooling	Cooling fan	2 x System fans	
Mechanic & Environment	Dimensions	1U rackmount, 430 x 450 x 44.5 mm (W x D x H)	
	Operation temperature	0 C ~ 40 C	
	Storage environment	Storage temperature: -40 C ~ 70 C, Storage humidity: 5 ~ 95%, non-condensing	
	Package	Double-layer neutral packaging (optional)	
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later	
	Software	GPIO/Bypass/Watchdog routines provided	
Product Certification	Certifications	Compliance with EMC, RoHS, CE, FCC	



- Intel® Bay Trail J1900/J1800 processor
- 6 x GbE RJ45
- Support mSATA/SATA
- DDR3/3L 1333/1600MHz SO-DIMM slot, up to 8GB
- Support 2 pairs Bypass(Gen3)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification	
Platform	CPU	Intel® Bay Trail J1800 dual core	Intel® Bay Trail J1900 quad core
	Base frequency	2.41GHz	2.0GHz
	BIOS	UEFI	
	Chipset	SoC	
RAM	Type	DDR3/3L 1333/1600MHz Non ECC	
	Capacity	Up to 8GB	
	Slot	1 x DDR3/3L SO-DIMM	
Network	Ports	6 x GbE RJ45	
	Controller	6 x RTL8111H	
	Bypass	2 pairs optional (Gen3), LAN3 ~ LAN4, LAN5 ~ LAN6	
Expansion	PCIe expansion	1 x PCIe 4X (x1) expansion module	
	miniPCIe	N/A	
I/O	Console	1 x RJ45 Console (compatible with Cisco defined)	
	USB	Upper: 1 x USB2.0, Lower: 1x USB3.0, 1 x USB2.0 pin header	
	Display	1 x VGA	
	GPIO	8	
Storage	HDD/SSD	1 x 2.5"/3.5"SATA HDD	
	mSATA	1 x mSATA	
	CF card	N/A	
Power	Power	AC 100~240V 50~60Hz, 100W(standard, single power supply), Single/Dual/Redundant Power Supply (optional)	
Control & Signal	Indicator	1 x HDD, 1 x Power, 2 x Bypass (optional)	
	Power switch	1 x Power switch	
	Button	1 x Custom Button	
Cooling	Cooling fan	2 x System fans	
Mechanic & Environment	Dimensions	2U rackmount, 430 x 450 x 88 mm (W x D x H)	
	Operation temperature	0℃ ~ 40℃	
	Storage environment	Storage temperature: -40℃ ~ 70℃, Storage humidity: 5 ~ 95%, non-condensing	
	Package	Double-layer neutral packaging (optional)	
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later	
	Software	GPIO/Bypass/Watchdog routines provided	
Product Certification	Certifications	Compliance with EMC, RoHS, CE, FCC	



- Intel® Bay Trail J1900/J1800 processor
- 2 x GbE RJ45 (3 or 6 optional)
- Support mSATA
- DDR3/3L 1333/1600MHz SO-DIMM slot, up to 8GB
- Single power or dual power optional
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification	
Platform	CPU	Intel® Bay Trail J1800 dual core	Intel® Bay Trail J1900 quad core
	Base frequency	2.41GHz	2.0GHz
	BIOS	UEFI	
	Chipset	SoC	
RAM	Type	DDR3/3L 1333/1600Mhz Non ECC	
	Capacity	Up to 8GB	
	Slot	1 x DDR3/3L SO-DIMM	
Network	Ports	6 x GbE RJ45	
	Controller	6 x RTL8111H	
Expansion	Isolation card	Support expansion isolation card	
	miniPCle	N/A	
I/O	Console	1 x RJ45 Console (compatible with Cisco defined)	
	USB	Upper: 1 x USB2.0, Lower: 1x USB3.0, 1 x USB2.0 pin header	
	Display	1 x VGA	
	GPIO	8	
Storage	HDD/SSD	N/A	
	mSATA	1 x mSATA	
	CF card	N/A	
Power	Power	AC 100~240V 50~60Hz, 100W(standard, single power supply), Single/DualPower Supply (optional)	
Control & Signal	Indicator	1 x HDD, 1 x Power	
	Power switch	1 x Power switch	
	Button	1 x Custom button	
Cooling	Cooling fan	2 x System fans	
Mechanic & Environment	Dimensions	1U rackmount, 430 x 300 x 44.5 mm (W x D x H)	
	Operation temperature	0℃ ~ 40℃	
	Storage environment	Storage temperature: -40℃ ~ 70℃, Storage humidity: 5 ~ 95%, non-condensing	
	Package	Double-layer neutral packaging (optional)	
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later	
	Software	GPIO/Bypass/Watchdog routines provided	
Product Certification	Certifications	Compliance with EMC, RoHS, CE, FCC	



- Intel Atom® Processor C3000 Series
- DDR4, 2133/2400 MHz, DIMM slot, ECC/Non ECC, support 64GB
- 6 x GbE RJ45, 2 x GbE SFP, 2 x 10GbE SFP+
- Support 3 x Bypass (Gen3)
- Support 1 x NIC module expansion
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification		
Platform	CPU	C3338R dual core	C3558R quad-core	Support Intel Atom® Processor C3000 Series
	Base frequency	1.8GHz	2.4GHz	Based on specific CPU type
	BIOS	UEFI		
	Chipset	SoC		
RAM	Type	DDR4 2133/2400 MHz ECC/Non ECC		
	Capacity	Max. Capacity 64GB		
	Slot	2 x DDR4 DIMMs		
Network	Ports	6 x GbE RJ45, 2 x GbE SFP, 2 x 10GbE SFP+		
	Controller	2 x Intel® I210-AT, 1 x Intel® I350-AM4, 1 x Marvell 1543		
	Bypass	3 pairs optional (Gen3), LAN1 ~ LAN2, LAN3 ~ LAN4, LAN5 ~ LAN6		
Expansion	NIC expansion	1 x NIC expansion		
	miniPCle	1 x miniPCle		
	SIM card	1 x Micro SIM card slot (optional)		
	4G/5G/WiFi	N/A		
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 1 x pin header		
	USB	2 x USB2.0		
	Display	None (optional for expansion)		
	GPIO	N/A		
Storage	HDD/SSD	1 x 2.5"/3.5" SATA HDD		
	mSATA	1 x mSATA		
	CF card	1 x CF card		
	eMMC	1 x eMMC		
Power	Power	AC 100~240V 50~60Hz, 65W, Single/Dual/Redundant Power Supply (optional)		
Control & Signal	Indicator	1 x HDD, 1 x Power, 1 x GPIO, 3 x Bypass (optional)		
	Power switch	1 x Power switch		
	Button	1 x Custom Button		
Cooling	Cooling system	2 x system fans		
Mechanic & Environment	Dimensions	1U rackmount 440 x 450 x 44 mm (W x D x H)		
	Operation temperature	0 °C ~ 40 °C		
	Storage Environment	Storage temperature: -40 °C ~ 70 °C, Storage humidity: 5 ~ 95%, non-condensing		
	Package	Double-layer neutral packaging (optional)		
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later		
	Software	GPIO/Bypass/Watchdog routines provided		
Product Certification	Certifications	Compliance with EMC, RoHS, CE, FCC		



- Intel Atom® Processor C3000 Series
- 2 x GbE RJ45, 4 x 2.5GbE RJ45, 2x Combo
- Support 4G/5G/WiFi expansion
- DDR4 2133/2400 MHz SO-DIMM slot, up to 64GB
- 1 x expansion slot, flexible NIC expansion module
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification			
Platform	CPU	C3338R dual core	C3558R quad-core	C3758R octa-core	Support Intel Atom® Processor C3000 Series
	Base frequency	1.8GHz	2.4GHz	2.4GHz	refer to specific CPU type
	BIOS	UEFI			
	Chipset	SoC			
RAM	Type	DDR4 2133/2400 MHz ECC/Non ECC			
	Capacity	Up to 64GB			
	Slot	Up to 2 x DDR4 SO-DIMM			
Network	Ports	2 x GbE RJ45, 4 x 2.5GbE RJ45, 2 x Combo			
	Controller	2 x Marvell 1514, 4 x Intel® I226-V, 1 x Marvell 1543			
	Bypass	3 pairs, GEN3, LAN1~LAN2, LAN3~LAN4, LAN5~LAN6 (optional, no defaulted)			
Expansion	NIC expansion	1 x NIC expansion			
	miniPCle	1 x miniPCle			
	SIM card	2 x Micro SIM slot			
	M.2	1 x M.2 for 4G/5G 1 x M.2 for WiFi			
	4G/5G/WiFi	Support (optional)			
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 1 x pin header			
	USB	2 x USB2.0			
	GPIO	8			
Storage	HDD/SSD	1 x 2.5"/3.5" SATA HDD			
	eMMC	1 x eMMC			
	mSATA	1 x mSATA			
Power	Power	AC 96~240V @ 47~63Hz, 65W (single power, dual power optional)			
Control & Signal	Indicator	1 x HDD, 1 x Power, 1 x GPIO, 3 x Bypass (optional)			
	Power switch	1 x Power switch			
	Button	1 x Custom Button			
Cooling	Cooling system	1 x system fan			
Mechanic & Environment	Dimensions	1U rackmount, 430 x 360 x 44 mm (W x D x H)			
	Operation temperature	0℃~50℃			
	Storage environment	Storage temperature: -40℃~70℃, Storage humidity: 5~95%, non-condensing			
	Package	Double-layer neutral packaging (optional)			
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later			
	Software	GPIO/Bypass/Watchdog routines provided			
Product Certification	Certifications	Compliance with EMC, RoHS, CE, FCC			



- Intel Atom® Processor C3000 Series
- 6 x GbE RJ45, 4 x 10GbE SFP+
- Support 2 x NIC expansion modules
- DDR4, 2133/2400 MHz, DIMM, ECC/Non ECC, up to 64GB
- 3 pairs of Bypass(Gen3)
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification		
Platform	CPU	C3558R quad-core	C3758R octa-core	Intel Atom® Processor C3000 Series
	Base frequency	2.4GHz	2.4GHz	Refer to the specific CPU
	BIOS	UEFI		
	Chipset	SoC		
RAM	Type	DDR4 2133/2400 MHz ECC/Non ECC		
	Capacity	Max capacity: 64GB		
	Slot	2 x DDR4 DIMMs		
Network	Ports	6 x GbE RJ45, 4 x 10GbE SFP+		
	Controller	2 x Intel® I210-AT, 1 x Intel® I350-AM4		
	Bypass	3 pairs optional(Gen3) , LAN1 ~ LAN2, LAN3 ~ LAN4, LAN5 ~ LAN6		
Expansion	NIC	2 x NIC Network Expansion Modules		
	M.2	1 x M.2 for 4G/5G		
	SIM card	1 x SIM card slot		
	4G/5G	Support(optional)		
I/O	Console	1 x RJ45 Console (Compatible with Cisco defined) , 1 x pin header		
	USB	2 x USB2.0		
	Display	N/A		
	GPIO	N/A		
Storage	HDD/SSD	1 x SATA3.0 (2.5"/3.5" hard disk, optional)		
	eMMC	1 x eMMC		
	mSATA	1 x mSATA		
Power	Power	AC 100~240V 50~60Hz, 65W(standard, single power supply), single power, dual power optional		
Control & Signal	Indicator	1 x HDD, 1 x power, 1 x GPIO, 3 x Bypass (Optional)		
	Switch	1 x power switch		
	Button	1 x reset pin header, 1 x power-on pin header		
Cooling	Cooling fan	2 x system fans		
Mechanical & Environmental	Dimensions	440 x 450 x 44 mm (W x D x H)		
	Operating temperature	0 C ~ 40 C		
	Storage environment	Storage temperature: -40 C ~ 70 C , Storage humidity: 5 ~ 95%, non-condensing		
	Package	Double-layer neutral packaging (optional)		
System & Software	OS	Linux, FreeBSD 9.2 or later, Windows 7 or later		
	Software	GPIO/Bypass/Watchdog routines provided		
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC		



- 2 X DDR4 2133/2400 MHz DIMM slot, up to 64GB
- Intel Atom® Processor C3000 Series
- 8 x GbE RJ45, 2 x GbE SFP, 2 x 10GbE SFP +, support 3 pairs Bypass
- 1 x expansion slot, flexible expansion module
- Support 4G/5G/WiFi expansion
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification			
Platform	CPU	C3558R quad-core	C3758R octa-core	C3958 16-core	Support Intel Atom® Processor C3000 Series
	Base frequency	2.4GHz	2.4GHz	2.0GHz	refer to specific CPU type
	BIOS	UEFI			
	Chipset	SoC			
RAM	Type	DDR4 2133/2400 MHz ECC/Non ECC			
	Capacity	Up to 64GB			
	Slot	2 x DDR4 DIMMs			
Network	Ports	8 x GbE RJ45, 2 x GbE SFP, 2 x 10GbE SFP +			
	Controller	2 x WX1860A4, 1x Marvell 1543			
	Bypass	3 pairs, GEN3, LAN3~LAN4, LAN5~LAN6, LAN7~LAN8 (optional, no defaulted)			
Expansion	NIC expansion	1 x NIC module			
	miniPCle	1 x miniPCle (mutually exclusive with NIC module)			
	SIM card	1 x SIM slot (mutually exclusive with NIC module)			
	M.2	1 x M.2 for 4G/5G 1 x M.2 for WiFi			
	4G/5G/WiFi	N/A			
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 1 x pin header			
	USB	2 x USB2.0			
	GPIO	N/A			
Storage	HDD/SSD	1 x 2.5"/3.5" SATA HDD			
	eMMC	1 x eMMC			
	CF	1 x CF card			
	mSATA	1 x mSATA			
Power	Power	AC 100~240V @ 50~60Hz, 65W single power/dual power/redundant power (optional)			
Control & Signal	Indicator	1 x HDD, 1 x Power, 1 x GPIO, 3 x Bypass (optional)			
	Power switch	1 x Power switch			
Cooling	Cooling system	2 x System fans			
Mechanic & Environment	Dimensions	1U rackmount, 440 x 450 x 44 mm (W x D x H)			
	Operating temperature	0℃~40℃			
	Storage environment	Storage temperature: -40℃~70℃, Storage humidity: 5~95%, non-condensing			
	Package	Double-layer neutral packaging (optional)			
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later			
	Software	GPIO/Bypass/Watchdog routines provided			
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC			



- Intel Atom® Processor C3000 Series
- 6 x GbE RJ45, 2 x 10 GbE SFP+
- Support 1 x NIC module
- DDR4, 2133/2400 MHz, DIMM slot, ECC/Non ECC memory up to 64GB
- Support 3 pairs Bypass (Gen3)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification		
Platform	CPU	C3558R quad-core	C3758R octa-core	Support Intel Atom® Processor C3000 Series
	Base frequency	2.4GHz	2.4GHz	Referred to CPU
	BIOS	UEFI		
	Chipset	SoC		
RAM	Type	DDR4 2133/2400 Mhz ECC/Non ECC (optional)		
	Capacity	Up to 64GB		
	Slot	2 x DDR4 DIMMs		
Network	Ports	6 x GbE RJ45, 2 x 10 GbE SFP+		
	Controller	1x Marvell 88E1543, 1 x WX1860A4,		
	Bypass	3 pairs optional (Gen3), LAN1 ~ LAN2, LAN3 ~ LAN4, LAN5 ~ LAN6		
Expansion	NIC Expansion	1 x NIC Network expansion module		
	miniPCle	1 x miniPCle		
	PCle Expansion	1 x PCle X8 expansion module		
	WiFi	N/A		
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 1 x pin header		
	USB	Upper: 1 x USB2.0, Lower: 1x USB3.0, 1 x USB2.0 pin header (1/2)		
	Display	Optional		
	GPIO	4		
Storage	HDD/SSD	1 x 2.5"/3.5" SATA HDD		
	mSATA	1 x mSATA		
	eMMC	eMMC (optional)		
Power	Power	AC 100~240V 50~60Hz, 65W (standard, single power supply), single / dual / redundant power optional		
Control & Signal	Indicator	1 x HDD, 1 x power, 1 x GPIO, 3 x Bypass (optional)		
	Button & Switch	1 x Custom button, 1 x Power switch		
Cooling	Cooling fan	2 x System fans		
Mechanic & Environment	Dimensions	1U rackmount, 440 x 450 x 44 mm (W x D x H)		
	Operating temperature	0°C ~ 40°C		
	Storage environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5~95%, non-condensing		
	Package	Double-layer neutral packaging (optional)		
System & Software	OS	Linux, FreeBSD 9.2 or later, Windows 7 or later		
	Software	GPIO/Bypass/Watchdog sample code provided		
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC		



- Intel Atom® Processor C3000 Series
- 6 x GbE RJ45, 2 x 10 GbE SFP+
- Support 1 x NIC module
- DDR4, 2133/2400 MHz, DIMM slot, ECC/Non ECC memory up to 64GB
- Support 3 pairs Bypass (Gen3)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification		
Platform	CPU	C3558R quad-core	C3758R octa-core	Support Intel Atom® Processor C3000 Series
	Base frequency	2.4GHz	2.4GHz	Referred to CPU
	BIOS	UEFI		
	Chipset	SoC		
RAM	Type	DDR4 2133/2400 MHz ECC/Non ECC		
	Capacity	Up to 64GB		
	Slot	2 x DDR4 DIMMs		
Network	Ports	6 x GbE RJ45, 2 x 10 GbE SFP+		
	Controller	1x Marvell 88E1543, 1 x WX1860A4,		
	Bypass	3 pairs optional (Gen3), LAN1 ~ LAN2, LAN3 ~ LAN4, LAN5 ~ LAN6		
Expansion	NIC expansion	NIC expansion		
	miniPCle	1 x miniPCle		
	PCle expansion	1 x PCle X8 expansion module		
	WiFi	N/A		
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 1 x pin header		
	USB	Upper: 1 x USB2.0, Lower: 1x USB3.0, 1 x USB2.0 pin header		
	Display	LCM (optional)		
	GPIO	4		
Storage	HDD/SSD	2 x 2.5"/3.5" SATA HDD		
	mSATA	1 x mSATA		
	eMMC	eMMC (optional)		
Power	Power	AC 100~240V 50~60Hz, 65W (standard, single power supply), single / dual / redundant power optional		
Control & Signal	Indicator	1 x HDD, 1 x power, 1 x GPIO, 3 x Bypass		
	Button & Switch	1 x Custom button, 1 x Power switch		
Cooling	Cooling fan	2 x System fans		
Mechanic & Environment	Dimensions	2U rackmount, 440 x 640 x 88 mm (W x D x H)		
	Operating temperature	0°C ~ 40°C		
	Storage environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5~95%, non-condensing		
	Package	Double-layer neutral packaging (optional)		
System & Software	OS	Linux, FreeBSD 9.2 or later, Windows 7 or later		
	Software	GPIO/Bypass/Watchdog routines provided		
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC		



- Intel Atom® Processor C3000 Series
- 6 x GbE RJ45, 2 x 10 GbE SFP+
- Support 1 x NIC module
- DDR4, 2133/2400 MHz, DIMM slot, ECC/Non ECC memory up to 64GB
- Support 3 pairs Bypass (Gen3)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification		
Platform	CPU	C3558R quad-core	C3758R octa-core	Support Intel Atom® Processor C3000 Series
	Base frequency	2.4GHz	2.4GHz	Referred to CPU
	BIOS	UEFI		
	Chipset	SoC		
RAM	Type	DDR4 2133/2400 MHz ECC/Non ECC		
	Capacity	Up to 64GB		
	Slot	2 x DDR4 DIMMs		
Network	Ports	6 x GbE RJ45, 2 x 10 GbE SFP+		
	Controller	1x Marvell 88E1543, 1 x WX1860A4,		
	Bypass	3 pairs optional (Gen3), LAN1 ~ LAN2, LAN3 ~ LAN4, LAN5 ~ LAN6		
Expansion	NIC expansion	1 x NIC Network expansion module		
	miniPCle	1 x miniPCle		
	PCle expansion	1 x PCle X8 expansion module		
	WiFi	N/A		
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 1 x pin header		
	USB	Upper: 1 x USB2.0, Lower: 1x USB3.0, 1 x USB2.0 pin header		
	Display	Optional		
	GPIO	4		
Storage	HDD/SSD	1 x 2.5"/3.5" SATA HDD		
	mSATA	1 x mSATA		
	eMMC	eMMC (optional)		
Power	Power	AC 100~240V 50~60Hz, 65W, Single/Dual/Redundant Power Supply (optional)		
Control & Signal	Indicator	1 x HDD, 1 x Power, 1 x GPIO, 3 x Bypass (optional)		
	Button & Switch	1 x Custom button, 1 x Power switch		
Cooling	Cooling fan	2 x System fans		
Mechanic & Environment	Dimensions	2U rackmount, 440 x 450 x 88 mm (W x D x H)		
	Operating temperature	0°C ~ 40°C		
	Storage environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5~95%, non-condensing		
	Package	Double-layer neutral packaging (optional)		
System & Software	OS	Linux, FreeBSD 9.2 or later, Windows 7 or later		
	Software	GPIO/Bypass/Watchdog routines provided		
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC		



- Intel Atom® C processor
- 6 x GbE RJ45 or 4 x GbE RJ45 + 2 x GbE SFP
- Support single power or dual power
- DDR4 2133/2400 memory, up to 16GB
- Support 4G/5G&WiFi
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification		
Platform	CPU	C3558R	C3338R	Intel Atom C series CPU optional
	Base frequency	2.4GHz	1.8GHz	Referred to CPU
	Chipset	SoC		
RAM	Type	DDR4 2133/2400 MHz ECC/Non ECC		
	Capacity	Up to 16GB		
	Slot	Onboard memory modules		
Network	Ports	6 x GbE RJ45 or 4 x GbE RJ45 + 2 x GbE SFP		
	Controller	2 x RTL8111H, 4 x Intel® X553		
	Bypass	1 pair optional (GEN3), LAN3~LAN4		
Expansion	PCIe expansion	1 x PCIe X4 expansion module		
	miniPCIe	1 x miniPCIe (mutually exclusive with PCIe)		
	M.2	2 x M.2 for 4G/5G, 1 x M.2 for SSD (optional)		
	SIM	2 x Micro SIM slot		
Storage	HDD/SSD	1 x 2.5"SATA HDD		
	mSATA	1 x mSATA (mutually exclusive with M.2 for SSD)		
	eMMC	1 x eMMC		
I/O	Console	1 x RJ45 Console, 2 x COM pin header		
	USB	2 x USB2.0		
	Display	Optional		
	GPIO	8		
Power	Power	AC 100~240V 50~60Hz, 65W(standard, single power supply), single power, dual power optional		
Control & Signal	Indicator	1 x Power, 1 x HDD, 1 x alarm, 1 x Bypass, 1 x power 1, 1 x power 2, 1 x customized, 1 x WiFi, 2 x 4G/5G		
	Button&Switch	1 x Custom button, 1 x Power switch		
	PANEL	1 x PANEL pin header		
	Fan socket	2 x System fans		
Power	Type	Support single power or dual power		
Mechanic & Environment	Dimensions	1U rackmount, 440 x 300 x 44 mm (W x D x H)		
	Operating temperature	0℃~40℃		
	Storage environment	Storage temperature: -40℃~70℃, Storage humidity: 5~95%, non-condensing		
System & Software	OS	Linux, FreeBSD 9.2 or later, Windows 7 or later		
	Software	GPIO/Bypass/Watchdog routines provided		
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC		



- Intel® Skylake C236 chipset
- 6 x GbE RJ45
- Support 2 x NIC modules
- DDR4, 1866/2133MHz, ECC/Non ECC memory, up to 64GB
- Support 3 pairs Bypass (Gen3)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification
Platform	CPU	6th/7th/8th/9th gen Intel® Xeon E3/ Core i7/i5/i3/ Pentium/ Celeron processor
	Chipset	Intel® Skylake C236
	BIOS	UEFI
RAM	Type	DDR4 1866/2133MHz ECC/Non ECC
	Capacity	Up to 64GB
	Slot	4 x DDR4 DIMMs
Network	Ports	6 x GbE RJ45
	Controller	6 x Intel® I210-AT
	Bypass	3 pairs optional (Gen3), LAN1~LAN2, LAN3~LAN4, LAN5~LAN6
Expansion	NIC expansion	2 x NIC network expansion modules
	miniPCle	1 x miniPCle
	SIM card	1 x SIM slot (optional)
	WiFi/4G/5G	N/A
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 2 x pin header
	USB	2 x USB3.0
	Display	1 x VGA
	GPIO	16
Storage	HDD/SSD	2 x 2.5"/3.5" SATA HDD
	M.2	1 x M.2
	CF card	1 x CF card
	mSATA	1 x mSATA
Power	Power	AC 100~240V 50~60Hz, 250W(standard, single power supply), single / redundant power optional
Control & Signal	Indicator	1 x HDD, 1 x Power, 1 x GPIO, 3 x Bypass (optional)
	Power switch	1 x Power switch
	Button	1 x Custom button
Cooling	Cooling fan	3 x System fans
Mechanic & Environment	Dimensions	1U rackmount, 440 x 600 x 44 mm (W x D x H)
	Operating temperature	0℃~40℃
	Storage environment	Storage temperature: -40℃~70℃, Storage humidity: 5~95%, non-condensing
	Package	Double-layer neutral packaging (optional)
System & Software	OS	Linux, FreeBSD 9.2 or later, Windows 7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- Intel® Skylake C236 chipset
- 8 x GbE RJ45
- Support 2 x NIC modules
- DDR4, 1866/2133MHz, ECC/Non ECC memory, up to 64GB
- Support 3 pairs Bypass (Gen3)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification
Platform	CPU	6th/7th/8th/9th gen Intel® Xeon E3/Core i7/i5/i3/ Pentium/ Celeron processor
	Chipset	Intel® Skylake C236
	BIOS	UEFI
RAM	Type	DDR4 1866/2133MHz ECC/Non ECC
	Capacity	Up to 64GB
	Slot	2 x DDR4 DIMMs
Network	Ports	8 x GbE RJ45
	Controller	8 x Intel® I210-AT
	Bypass	3 pairs optional (Gen3), LAN1 ~ LAN2, LAN3 ~ LAN4, LAN5 ~ LAN6
Expansion	NIC module	2 x NIC network expansion modules
	miniPCle	1 x miniPCle
	SIM card	1 x SIM slot
	M.2	1 x M.2 (PCle x1)
	WiFi/4G/5G	N/A
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 1 x pin header
	USB	2 x USB3.0
	Display	1 x VGA
	GPIO	16
Storage	HDD/SSD	2 x 2.5"/3.5" SATA HDD
	CF card	1 x CF card
	mSATA	1 x mSATA
Power	Power	AC 100~240V 50~60Hz, 250W (standard, single power supply), single / redundant power optional
Control & Signal	Indicator	1 x HDD, 1 x power, 1 x GPIO, 3 x Bypass (optional)
	Power switch	1 x Power switch
	Reset button	1 x Custom button
Cooling	Cooling fan	3 x System fans
Mechanic & Environment	Dimensions	1U rackmount, 440 x 600 x 44 mm (W x D x H)
	Operating temperature	0 °C ~ 40 °C
	Storage environment	Storage temperature: -40 °C ~ 70 °C, Storage humidity: 5 ~ 95%, non-condensing
	Package	Double-layer neutral packaging (optional)
System & Software	OS	Linux, FreeBSD 9.2 or later, Windows 7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- Intel® Skylake C236 chipset
- 8 x GbE RJ45
- Support 2 x NIC modules
- DDR4, 1866/2133MHz, ECC/Non ECC memory, up to 64GB
- Support 3 pairs Bypass (Gen3)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification
Platform	CPU	6th/7th/8th/9th gen Intel® Xeon E3/Core i7/i5/i3/ Pentium/ Celeron processor
	Chipset	Intel® Skylake C236
	BIOS	UEFI
RAM	Type	DDR4 1866/2133MHz ECC/Non ECC
	Capacity	Up to 64GB
	Slot	2 x DDR4 288PIN DIMM
Network	Ports	8 x GbE RJ45
	Controller	8 x Intel® I210-AT
	Bypass	3 pairs optional (Gen3), LAN1~LAN2, LAN3~LAN4, LAN5~LAN6
Expansion	NIC Expansion	2 x NIC network expansion modules
	miniPCle	1 x miniPCle
	SIM card	1 x SIM slot
	M.2	1 x M.2 (PCIe x1)
	WiFi/4G/5G	N/A
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 1 x pin header
	USB	2 x USB3.0
	Display	1 x VGA
	GPIO	16
Storage	HDD/SSD	4 x 2.5"/3.5" SATA HDD
	CF card	1 x CF card
	mSATA	1 x mSATA
Power	Power	AC 100~240V 50~60Hz, 250W (standard, single power supply), single / redundant power optional
Control & Signal	Indicator	1 x HDD, 1 x power, 1 x GPIO, 3 x Bypass (optional)
	Power switch	1 x Power switch
	Button	1 x Custom button
Cooling	Cooling fan	2 x System fans
Mechanic & Environment	Dimensions	2U rackmount, 440 x 560 x 88 mm (W x D x H)
	Operating temperature	0°C ~ 40°C
	Storage environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5 ~ 95%, non-condensing
	Package	Double-layer neutral packaging (optional)
System & Software	OS	Linux, FreeBSD 9.2 or later, Windows 7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- Intel® Skylake C236 chipset
- Support 6th/7th/8th/9th Gen Intel® Xeon E3/ Core i7/i5/i3/ Pentium/ Celeron Processor
- Support 4 x NIC modules
- DDR4, 1866/2133MHz, ECC/Non ECC memory, up to 64GB
- Support single power & redundant power
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification
Platform	CPU	6th/7th/8th/9th gen Intel® Xeon E3/Core i7/i5/i3/ Pentium/ Celeron processor
	BIOS	UEFI
	Chipset	Intel® Skylake C236
RAM	Type	4 x DDR4 1866/2133Mhz DIMM ECC/Non ECC memory
	Capacity	Up to 64GB
	Slot	4 x DDR4 DIMMs
Network	Ports	Up to 34 Network Interfaces, NIC Module Definition
	Controller	NIC module defined
	Bypass	NIC module defined
Expansion	NIC expansion	4 x NIC network expansion modules
	PCIe expansion	2 x PCIe X8 expansion modules
	miniPCIe	2 x miniPCIe
	WiFi	N/A
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 2 x pin header
	USB	2 x USB3.0
	Display	1 x VGA
	GPIO	8
Storage	HDD/SSD	4 x 2.5"/3.5"SATA HDD
	CF card	1 x CF card
	mSATA	1 x mSATA
Power	Power	AC 100~240V 50~60Hz, 250W(standard, single power supply), single / redundant power optional
Control & Signal	Indicator	1 x HDD, 1 x power, 1 x GPIO
	Power switch	1 x Power switch
	Button	1 x Custom button
Cooling	Cooling fan	2 x System fans
Mechanic & Environment	Dimensions	2U rackmount, 440 x 560 x 88 mm (W x D x H)
	Operating temperature	0°C ~ 40°C
	Storage environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5 ~ 95%, non-condensing
	Package	Double-layer neutral packaging (optional)
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- Intel® Skylake C236 chipset
- 6 x GbE RJ45, 2 x GbE SFP
- Support 2 x NIC modules
- DDR4, 1866/2133MHz, ECC/Non ECC memory, up to 64GB
- Support 3 pairs Bypass (Gen3)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification
Platform	CPU	6th/7th/8th/9th gen Intel® Xeon E3/Core i7/i5/i3/ Pentium/ Celeron processor
	SoC	Intel® Skylake C236
	BIOS	UEFI
RAM	Type	DDR4 1866/2133MHz ECC/Non ECC
	Capacity	Up to 64GB
	Slot	2 x DDR4 DIMMs
Network	Ports	6 x GbE RJ45, 2 x GbE SFP
	Controller	6 x Intel® I210-AT, 2 x Intel® I210-IS
	Bypass	3 pairs optional (Gen3), LAN1 ~ LAN2, LAN3 ~ LAN4, LAN5 ~ LAN6
Expansion	NIC module	2 x NIC network expansion modules
	miniPCle	1 x miniPCle
	SIM card	1 x SIM slot
	M.2	1 x M.2 (PCle x1)
	WiFi/4G/5G	N/A
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 1 x pin header
	USB	2 x USB3.0
	Display	1 x VGA
	GPIO	16
Storage	HDD/SSD	2 x 2.5"/3.5" SATA HDD
	CF card	1 x CF card
	mSATA	1 x mSATA
Power	Power	AC 100~240V 50~60Hz, 250W (standard, single power supply), single / redundant power optional
Control & Signal	Indicator	1 x HDD, 1 x power, 1 x GPIO, 3 x Bypass (optional)
	Power switch	1 x Power switch
	Button	1 x Custom button
Cooling	Cooling fan	3 x System fans
Mechanic & Environment	Dimensions	1U rackmount, 440 x 600 x 44 mm (W x D x H)
	Operating temperature	0°C ~ 40°C
	Storage environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5 ~ 95%, non-condensing
	Package	Double-layer neutral packaging (optional)
System & Software	OS	Linux, FreeBSD 9.2 or later, Windows 7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- Intel® Skylake C236 chipset
- 6 x GbE RJ45
- Support 2 NIC module expansion slots
- DDR4,1866/2133Mhz,ECC/Non ECC , up to 64GB
- Support 3 pairs of Bypass(Gen3)
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification
Platform	CPU	6th/7th/8th/9th gen Intel® Xeon E3/Core i7/i5/i3/ Pentium/ Celeron processor
	Chipset	Intel® Skylake C236
	BIOS	UEFI
RAM	Type	DDR4 1866/2133MHz ECC/Non ECC
	Capacity	Max capacity: 64GB
Network	Ports	6 x GbE RJ45
	Controller	6 x Intel® I210-AT
	Bypass	3 pair optional(Gen3) , LAN1~LAN2, LAN3~LAN4, LAN5~LAN6
Expansion	NIC	2 x NIC network expansion modules
	miniPCle	1 x miniPCle
	SIM card	1 x SIM card slot (optional)
	WiFi/4G/5G	N/A
I/O	Console	1 x RJ45 Console port (compatible with Cisco defined) , 2 x pin headers
	USB	2 x USB3.0
	Display	1 x VGA
	GPIO	16
Storage	HDD/SSD	4 x 2.5"/3.5"SATA HDD
	M.2	1 x M.2
	CF card	1 x CF card
	mSATA	1 x mSATA
Power	Power	AC 100~240V 50~60Hz, 250W(standard, single power supply), single / redundant power optional
Control & Signal	Indicator	1 x status, 1 x power, 1 x GPIO , 3 x Bypass (optional)
	Switch	1 x Power switch
	Button	1 x Custom button
Cooling	Cooling fan	2 x System fans
Mechanical & Environmental	Dimensions	2U, 440 x 560 x 88 mm (W x D x H)
	Operating temperature	0℃~40℃
	Storage environment	Storage temperature: -40℃~70℃ , Storage humidity: 5~95%,non-condensing
	Package	Double-layer neutral packaging (optional)
System & Software	OS	Linux, FreeBSD 9.2 or later, Windows 7 or later
	Software	GPIO/Bypass/Watchdog sample code provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- Onboard Intel® C621 chipset
- Single Intel® 2nd Gen Xeon processor
- Support 8 x NIC module expansion
- DDR4, 2666MHz, ECC/Non ECC memory, up to 384GB
- Support CRPS Redundant power
- EMC, RoHS, CE and FCC Certificate Compliance

Type	Parameter	Specification
Platform	CPU	Support single 2nd Gen Intel® Xeon® scalable processor
	BIOS	UEFI
	Chipset	Intel® Skylake C621
Memory	Type	DDR4 2133/2400/2666MHz RDIMM ECC
	Capacity	Support up to 384GB
	Slot	12 x DDR4 DIMMs
Network	Ports	Support up to 66 network ports , NIC module defined
	Network Chip	NIC module defined
	Bypass	NIC module defined
Expansion	NIC expansion	8 x NIC network expansion modules
	PCIe	1 x PCIe 16X expansion module
	miniPCIe	2 x miniPCIe
I/O	Console	1 x RJ45 Console port (compatible with Cisco defined), 1 x onboard pin
	USB	2 x USB3.0, 1 x USB 2.0 onboard pin (1/2)
	Display	1 x VGA port (optional)
	GPIO	4
Storage	HDD/SSD	2 x 2.5"/3.5" SATA HDD
	CF card	1 x CF card
	mSATA	1 x mSATA
Power Supply	Power	AC 100~240V 50~60Hz, 550W, CRPS Redundant Power Supply
Control & Signal	LED Indicator	1 x Harddisk indicator, 1 x power indicator
	Power Switch	1 x Power switch
Cooling	Cooling Fan	3 x pluggable fan system module
Mechanic & Environment	Dimensions	19 inch 2U rackmount, 440 x 560 x 88 mm (W x D x H)
	Operating temperature	0 C ~ 40 C
	Storage environment	Storage temperature: -40 C ~ 70 C , Storage humidity: 5 ~ 95%, non-condensing
	Packages	Double-layer neutral packaging (customized)
Operation System & Software	Operation system	Linux, FreeBSD 9.2 or later, Windows 7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC/RoHS/CE/FCC



- Onboard Intel® C621 chipset
- Single Intel® 2nd Gen Xeon processor
- Support 4 x NIC module expansion
- DDR4, 2666MHz, ECC/Non ECC memory, up to 384GB
- Support CRPS Redundant power
- EMC, RoHS, CE and FCC Certificate Compliance

Type	Parameter	Specification
Platform	CPU	Support single 2nd Gen Intel Xeon scalable processor
	BIOS	UEFI
	Chipset	Intel® Skylake C621
Memory	Type	DDR4 2133/2400/2666MHz RDIMM ECC
	Capacity	Support up to 384GB
	Slot	12 x DDR4 DIMMs
Network	Ports	Support up to 34 network ports , NIC module defined
	Network controller	NIC module defined
	Bypass	NIC module defined
Expansion	NIC expansion	4 x NIC network expansion modules
	miniPCle	2 x miniPCle
I/O	Console	1 x RJ45 Console port (compatible with Cisco defined), 1 x onboard pin
	USB	2 x USB3.0, 1 x USB 2.0 onboard pin (1/2)
	Display	1 x VGA port (optional)
	GPIO	4
Storage	HDD/SSD	1 x 2.5" SATA HDD
	CF card	1 x CF card
	mSATA	1 x mSATA
Power Supply	Power	AC 100~240V 50~60Hz, 550W, CRPS Redundant Power Supply
Control & Signal	Indicator	1 x Harddisk indicator, 1 x power indicator
	Power switch	1 x Power switch
Cooling	Cooling fan	3 x Hot-swappable system fan modules
Mechanic & Environment	Dimensions	19 inch 1U rackmount, 440 x 560 x 44 mm (W x D x H)
	Operating temperature	0 °C ~ 40 °C
	Storage environment	Storage temperature: -40 °C ~ 70 °C , Storage humidity: 5 ~ 95%, non-condensing
	Packages	Double-layer neutral packaging (customized)
Operation System & Software	OS	Linux , FreeBSD9.2 or later , Windows7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC/RoHS/CE/FCC



- 12th/13th/14th Intel® i9/ i7/i5/i3/Pentium / Celeron Processor
- Onboard Intel R680E chipset
- Supports 8 NIC expansion slots
- DIMM DDR5, support, 5600MHz, up to 192GB
- Support HDD, mSATA, M.2 (NVMe)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification
Platform	CPU	12th/13th/14th Intel® i9/ i7/i5/i3/Pentium / Celeron Processor
	Chipset	Intel R680E chipset
BIOS	BIOS	UEFI
RAM	Type	DIMM DDR5 Up to 5600 MHz, ECC/Non ECC
	Capacity	Max. Capacity: 192GB
	Slot	4 x DDR5 DIMMs
Network	Ports	Support up to 66 network interfaces, NIC module defined
	Controller	NIC module defined
	Bypass	NIC module defined
Storage	HDD/SSD	2 x 2.5"SATA HDD
	mSATA	1 x mSATA
	M.2	1 x M.2 (NVMe) optional
Expansion	NIC expansion	8 x NIC network expansion modules
	PCIe	1 x PCIe 8X expansion module
	M.2	N/A
	miniPCIe	1 x miniPCIe (optional)
	WiFi	Optional
	4G/5G	N/A
I/O	Console	1 x RJ45
	USB	2 x USB3.0
	GPIO	8
Display	HDMI	1 x HDMI (Built-in) , 1 x VGA (optional)
Power	Power	Built-in CRPS redundant power supply, 550W, AC 100–240V, 50–60Hz
TPM	TPM	Support
Control & Signal	Indicator	1 x HDD, 1 x Power
	Power switch	1 x Power switch
Cooling	Cooling system	3 x Hot-swappable system fan modules
Mechanical & Environmental	Dimensions	440 x 560 x 88 mm (W x D x H)
	Operating temperature	0°C ~ 40°C
	Storage environment	Storage Temperature: -40 ~ 70°C Storage humidity: 5 ~ 95%, non-condensing
	Package	Double-layer neutral packaging (customizable)
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certifications	Compliance with EMC, RoHS, CE, FCC



- Support 12th/13th/14th Intel® i9/ i7/i5/i3/Pentium / Celeron processor
- DIMM DDR5, support 5600MHz, up to 192GB
- 1 x GbE RJ45, 8 x 2.5GbE RJ45, 2 x GbE SFP
- Support HDD, mSATA, M.2 (NVMe)
- 2 x NIC modules
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification
Platform	CPU	12th/13th/14th Intel® i9/ i7/i5/i3/Pentium / Celeron Processor
	Chipset	Intel R680E chipset
BIOS	BIOS	UEFI
RAM	Type	DIMM DDR5 Up to 5600 MHz, ECC/Non ECC
	Capacity	Up to 192GB
	Slot	4 x DDR5 DIMMs
Network	Ports	1 x GbE RJ45, 8 x 2.5GbE RJ45, 2 x GbE SFP
	Controller	1 x Intel® I210-AT, 8 x Intel® I226, 2 x Intel® I210-AS
	Bypass	4 pairs, GEN3 (optional)
Storage	HDD/SSD	1 x 2.5" SATA HDD
	mSATA	1 x mSATA
	M.2	1 x M.2
Expansion	NIC expansion	2 x NIC expansion modules
	PCIe	1 x PCIe 8X expansion module
	M.2	1 x M.2 for 4G/5G
	miniPCIe	1 x miniPCIe
	WiFi	N/A
I/O	Console	1 x RJ45
	USB	2 x USB3.0
	GPIO	8
Display	HDMI	1 x HDMI (built-in), 1 x VGA (optional)
Power	Power	Single/Dual Power Supply, 250W (standard, single power supply), AC 100~240V 50~60Hz
TPM	TPM	Support
Control & Signal	Indicator	Refer to port layout
	Power switch	1 x Power switch
Cooling	Cooling system	2 x System fans
Mechanical & Environmental	Dimensions	440 x 560 x 44 mm (W x D x H)
	Operating temperature	0°C ~ 40°C
	Storage environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5~95%, non-condensing
	Packages	Double-layer neutral packaging (optional)
System & Software	OS	Linux, FreeBSD 9.2 or later, Windows 7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- Support single-socket 4th/5th Gen Intel® Xeon® Scalable Processor
- Onboard Intel® C741 chipset
- Support 4 x PCIe5.0 NIC expansion modules
- DDR5 up to 5600MHz DIMM slots, supporting up to 4TB
- Support HDD, mSATA, M.2 (NVMe)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification
Platform	CPU	4th/5th Gen Intel® Xeon® scalable processor
	BIOS	UEFI
	Chipset	Intel® C741
RAM	Type	DDR5 up to 5600MHz ECC RDIMM
	Capacity	Up to 4TB
	Slot	16 x DDR5 DIMMs
Network	Ports	Support up to 34 network interfaces, NIC module defined
	Controller	NIC module defined
	Bypass	NIC module defined
I/O	Console	1 x RJ45 CONSOLE
	USB	2 x USB3.0
	GPIO	4
Expansion	NIC expansion	4 x NIC network expansion modules
	PCIe	N/A
	miniPCIe	1 x miniPCIe
	WiFi/4G/5G	N/A
Storage	HDD/SSD	1 x 2.5"SATA HDD
	M.2	1 x M.2 (NVMe)
	mSATA	1 x mSATA
TPM	TPM	Support
Display	Display	1 x VGA(optional)
Power	Power	AC 100~240V 50~60Hz,550W, built-in CRPS redundant power supply
Control & Signal	Indicator	1 x Power, 1 x HDD
	Switch	1 x Power switch
Cooling	Cooling system	3 x Hot-swappable system fan modules
Mechanical & Environmental	Dimensions	440 x 592 x 44 mm (W x D x H)
	Operating temperature	0℃~40℃
	Storage environment	Storage temperature: -40℃~70℃, Storage humidity: 5~95%,non-condensing
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- Support 4th/5th Gen Intel® Xeon® Scalable processor
- Intel® C741 chipset
- Support 8 x PCIe5.0 NIC expansion modules
- DDR5 4400/4800MHz RDIMM socket, up to 4TB
- Support SATA, mSATA, M.2 (NVMe)
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification
Platform	CPU	Support 4th/5th Gen Intel® Xeon®scalable processor
	BIOS	UEFI
	Chipset	Intel® C741
RAM	Type	Support DDR5 4400/4800 MHz ECC RDIMM
	Capacity	Max. Capacity: 4TB
	Slot	16 x DDR5 DIMM
Network	Ports	Support up to 66 network interfaces, NIC module defined
	Controller	NIC module defined
	Bypass	NIC module defined
I/O	Console	1 x RJ45 CONSOLE
	USB	2 x USB3.0
	GPIO	4
Expansion	NIC expansion	8 x NIC network expansion modules
	PCIe	1 x PCIe 16X expansion module
	miniPCIe	1 x miniPCIe
Storage	HDD/SSD	2 x 2.5"/3.5"SATA HDD
	M.2	1 x M.2 (NVMe)
	mSATA	1 x mSATA
Display	Display	1 x VGA (optional)
Power	Power	AC 100~240V 50~60Hz , 550W, CRPS Redundant Power Supply
Control & Signal	Indicator	1 x power, 1 x status
	Power switch	1 x Power switch
	PANEL	1 x PANEL pin
Cooling	Cooling system	3 x Hot-swappable system fan modules
Mechanical & Environmental	Dimensions	2U rackmount, 440 x 592 x 88 mm (W x D x H)
	Operating temperature	0℃ ~40℃
	Storage environment	Storage Temperature: -40 ~70℃ Storage humidity: 5 ~95%, non-condensing
TPM	TPM	Support
System & Software	OS	Linux, FreeBSD9.2 or later , Windows7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certifications	Compliance with EMC, RoHS, CE, FCC



- Intel® Bay Trail J1900/E3825/E3845 processor
- -20°C ~ +75°C reliable operating environment design
- Compliance with EMC, RoHS, CE, FCC
- 6 x GbE RJ45
- Support 2 pairs Bypass

Type	Parameter	Specification		
Platform	CPU	Intel® Bay Trail J1900 quad-core	Intel® Bay Trail E3845 quad-core	Intel® BayTrail E3825 dual core
	Frequency	2.0GHz	1.91GHz	1.33GHz
	BIOS	UEFI		
	Chipset	SoC		
RAM	Type	DDR3/3L 1067/1333/1600MHz Non ECC		
	Capacity	Up to 8GB		
	Slot	1 x DDR3/3L SO-DIMM		
Network	Ports	6 x GbE RJ45		
	Controller	6 x Intel® I210-AT		
	Bypass	2 pairs (optional)		
Expansion	miniPCle	1 x miniPCle		
	M.2	1 x M.2(3052)		
	4G/5G	Support (optional)		
	WiFi	Support (optional)		
I/O	Console	1 x RJ45 Console (compatible with Cisco defined) ,1 x pin		
	USB	2 x USB2.0, 1 x USB2.0 pin		
	DI/DO	Support 6 bypass DI/DO (optional)		
	Series ports	Support 4 x RS485/RS232 (optional)		
	Display	1 x HDMI		
	GPIO	8		
Storage	HDD/SSD	1 x SATA3.0 (2.5 HDD)		
	mSATA	1 x mSATA		
Power input	Power	AC 100~240V 50~60Hz, 60W, Power Adapter		
Control & Signal	Indicator light	1 x HDD, 1 x Power, 2 x Bypass(optional)		
	Button	1 x Custom button		
Cooling	Cooling method	Aluminium alloy housing fanless design		
Mechanic & Environment	Dimension	DIN-Rail, 163 x 132 x 80 mm (W x D x H)		
	Operating temperature	-20°C ~ 75°C		
	Storage environment	Storage temperature: -40°C ~ 85°C , storage humidity: 5 ~ 95%, non-condensing		
	Package	Double-layer neutral packaging (customized)		
System & Software	Operation system	Linux, FreeBSD 9.2 or later, and Windows 7 or later		
	Software	GPIO/Bypass/Watchdog routines provided		
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC		



- Intel® Bay Trail J1800/J1900 processor
- 6 x GbE RJ45, 2 x GbE SFP
- Support CF/mSATA/SATA
- DDR3/3L 1333/1600MHz SO-DIMM slot, up to 8GB
- Support 3 pairs Bypass (Gen3)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification	
Platform	CPU	Intel® Bay Trail J1800 dual core	Intel® Bay Trail J1900 quad-core
	Base Frequency	2.41GHz	2.0GHz
	BIOS	UEFI	
	Chipset	SoC	
RAM	Type	DDR3/3L 1333/1600Mhz Non ECC	
	Capacity	Up to 8GB	
	Slot	1 x DDR3/3L SO-DIMM	
Network	Ports	8 x GbE RJ45 OR 6 x GbE RJ45, 2 x GbE SFP	
	Controller	8 x Intel® I210-AT OR 6 x Intel® I210-AT, 2 x Intel® I210-AS	
	Bypass	3 pairs optional (Gen3), LAN1 ~ LAN2, LAN3 ~ LAN4, LAN5 ~ LAN6	
Expansion	NIC Expansion	1 x NIC Network expansion module	
	miniPCle	1 x miniPCle	
	SIM card	1 x SIM slot (optional)	
	4G/WiFi	N/A	
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 1 x pin header	
	USB	2 x USB2.0	
	Display	1 x VGA (optional)	
	GPIO	8	
Storage	HDD/SSD	1 x 2.5"/3.5" SATA HDD	
	mSATA	1 x mSATA (mutually exclusive with CF card)	
	CF card	1 x Type II CF card (mutually exclusive with mSATA)	
Power	Power	AC 100~240V 50~60Hz, 65W, single power/dual power (optional)	
Control & Signal	LED Indicator	1 x HDD, 1 x Power, 1 x GPIO, 3 x Bypass (optional)	
	Power switch	1 x Power switch	
	Reset button	1 x Custom button	
Cooling	Cooling fan	Fanless thermal design	
Mechanic & Environment	Dimensions	1U rackmount, 430 x 360 x 44 mm (W x D x H)	
	Operation temperature	0℃ ~ 40℃	
	Storage environment	Storage temperature: -40℃ ~ 70℃, Storage humidity: 5 ~ 95%, non-condensing	
	Package	Double-layer packaging (customized)	
System & Software	OS	Linux, FreeBSD 9.2 or later, and Windows 7 or later	
	Software	GPIO/Bypass/Watchdog routines provided	
Product Certification	Certifications	Compliance with EMC, RoHS, CE, FCC	



- Onboard Intel® Skylake C236 chipset
- 6 x GbE RJ45, 2 x GbE SFP
- Support 2 x NIC modules
- DDR4, 1866/2133Mhz, ECC/Non ECC memory, up to 64GB
- Support 3 pairs Bypass (Gen3)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification
Platform	CPU	6th/7th/8th/9th Gen Intel® Xeon® E3/i7/i5/i3/Pentium/Celeron processors, low-power versions
	Chipset	Intel® Skylake C236
	BIOS	UEFI
RAM	Type	DDR4 1866/2133MHz ECC/Non ECC
	Capacity	Up to 64GB
	Slot	2 x DDR4 DIMM
Network	Ports	6 x GbE RJ45, 2 x GbE SFP
	Controller	6 x Intel® I210-AT, 2 x Intel® I210-AS
	Bypass	3 pairs optional (Gen3), LAN1 ~ LAN2, LAN3 ~ LAN4, LAN5 ~ LAN6
Expansion	NIC expansion	2 x NIC Network expansion modules
	miniPCle	1 x miniPCle
	SIM card	1 x SIM card
	M.2	1 x M.2
	WiFi/4G/5G	N/A
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 1 x onboard pin header
	USB	2 x USB3.0
	Display	1 x VGA (optional)
	GPIO	8
Storage	HDD/SSD	1 x 2.5"/3.5" SATA HDD
	CF card	1 x CF card
	mSATA	1 x mSATA
Power	Power	AC 100~240V 50~60Hz, 150W, single power/dual power (optional)
Control & Signal	Indicator	1 x HDD, 1 x power, 1 x GPIO, 3 x Bypass (optional)
	Power switch	1 x Power switch
	Button	1 x Custom button
Cooling	Cooling fan	fanless thermal design
Mechanic & Environment	Dimensions	1U, 440 x 560 x 44 mm (W x D x H)
	Operating temperature	0°C ~ 40°C
	Storage environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5 ~ 95%, non-condensing
	Package	Double-layer neutral packaging (optional)
System & Software	OS	Linux, FreeBSD 9.2 or later, and Windows 7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- ARM Rockchip RK3568 quad-core 64 Cortex-A55 processor
- 4 x RJ45 GbE ports
- Support rack-mount installation
- On board DDR4 memory: 1 ~ 4GB optional
- Support 4G/5G/WiFi expansion
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification
Platform	CPU	ARM Rockchip RK3568 quad-core Cortex-A55
	Base frequency	Up to 2.0GHz
	Chipset	SoC
RAM	Type	DDR4 2400 MHz, Non ECC
	Capacity	Max capacity: 4GB
	Memory	Onboard memory
Network	Ports	4 x GbE RJ45
	Controller	LAN1 ~ LAN2 (RTL 8211F), LAN3 ~ LAN4 (RTL 8111H)
	Bypass	N/A
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 1 x COM pin
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0 OTG
Expansion	M.2	2 x M.2 slot for 4G/5G
	SIM card	2 x Micro SIM slot
	miniPCle	1 x miniPCle (optional)
Storage	eMMC	1 x eMMC
	mSATA	1 x mSATA (optional)
	TF	1 x TF
Power	Power	Power adapter, AC 100~240V 50~60Hz, power input: 24W
TPM	TPM	Support
Control & Signal	Indicator	1 x HDD, 1 x power, 2 x 4G/5G indicator, 1 x WiFi
	Button	1 x Custom Button
Cooling	Cooling	CPU active cooler
Mechanic & environment	Dimensions	198 x 109 x 32mm (W x D x H)
	Operating temperature	0°C ~ 40°C
	Storage environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5 ~ 95%, non-condensing
System & Software	Operation system	Android/Linux
Product certification	Software	GPIO routines provided
	Certification	Compliance with EMC, RoHS, CE, FCC



- ARM Rockchip RK3568 quad-core 64 bit Cortex-A55 processor
- 5 x RJ45 GbE , 1xCombo (controller is independent MAC and PHY,non-switching chips)
- Onboard 8~512GB eMMC storage, with additional support for TF card and mSATA hard drive expansion
- DDR4 2400 RAM: 1~8GB
- Support 4G/5G/WiFi
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification
Platform	CPU	ARM Rockchip RK3568 quad-core Cortex-A55
	Base frequency	Up to 2.0GHz
	GPU	CPU integrated
RAM	Type	DDR4 2400MHz 1~8GB, Non ECC
Network	Ports	5 x GbE RJ45, 1 x Combo
	Controller	4 x RTL8111H(REALTEK), 2 x RTL8211FS(REALTEK PHY)
	Bypass	2 pairs optional(Gen3), LAN2~LAN3, LAN4~LAN5
Expansion	M.2	1 x M.2 for 4G/5G(mutually exclusive with SATA/mSATA)
	SIM slot	1 x SIM slot
	PCIe	1 x miniPCIe/PCIe X4
	WiFi	Support IEEE 802.11 Wi-Fi 5/6 (b/g/n/ac/ax), 2.4GHz& 5GHz, 4 x SMA ports
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 2 x pin headers
	USB	2 x USB2.0
	GPIO	4
Storage	HDD/SSD	1 x mSATA (mutually exclusive with 5G functionality)
	eMMC	8~512GB eMMC FLASH storage optional
	TF	1 x TF card slot
Display	Display	1 x HDMI
Power	Power	AC 100~240V 50~60Hz, 24W, Power adapter
Control & Signal	Indicator	1 x HDD, 1 x power, 2 x Bypass (optional)
	Button	1 x Custom button
Cooling	Cooling	CPU active cooler
Mechanic & environment	Dimension	210 x 140 x 30 mm (W x D x H)
	Operating temperature	0℃~40℃
	Storage environment	Storage temperature: -40℃~70℃, Storage humidity: 5%~95%,non-condensing
	Package	Double-layer neutral packaging (customized)
System & Software	Operation system	Android/Linux
	Software	GPIO/Bypass/Watchdog routines provided
Product certification	Certification	Compliance with EMC, RoHS, CE, FCC



- ARM Phytium E2000 quad-core processor, up to 2.0GHz
- 8 x GbE RJ45, 2 x GbE RJ45/SFP Combo
- Support eMMC, TF
- DDR4 memory, maximum capacity 64GB, support both ECC and non-ECC
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification
Platform	CPU	ARM Phytium E2000 quad-core processor 2.0GHz
	Chipset	SoC
	UBIOS	UEFI
RAM	Type	DDR4, 2400MHz, ECC or non-ECC
	Capacity	Up to 64GB
Network	Ports	8 x GbE RJ45, 2 x RJ45/SFP Combo
	Controller	6 x RTL8111H, 4 x RTL8211
	Bypass	1 pair (Gen3), LAN3 ~ LAN4
Storage	eMMC	1 x eMMC
	TF	1 x TF
	HDD/SDD	N/A
	mSATA	N/A
I/O	Console	1 x RJ45 Console, 4 x COM pin headers
	USB	2 x USB2.0
	GPIO	8
	Display	1 x VGA (optional)
Expansion	M.2	1 x M.2 for 4G/5G
	miniPCle	1 x miniPCle
	SIM	1 x Micro SIM card slot
	Encryption	Encryption card expandable through miniPCle (USB 2.0)
Power	Power	AC 100~240V 50~60Hz, 60W, Power adapter
Control & Signal	Indicator	1 x Bypass, 1 x power, 1 x HDD, 1 x 4G/5G
	Button	1 x Custom button
Cooling	Cooling system	CPU active cooler
Mechanical & Environmental	Dimensions	230 x 176 x 44 mm (W x D x H)
	Operating temperature	0°C ~ 40°C
	Storage environment	Storage temperature: -40°C ~ 70°C Storage humidity: 5 ~ 95%, non-condensing
	Package	Double-layer neutral packaging (optional)
System & Software	OS	Kylin OS, Ubuntu
	Software	GPIO/Bypass/Watchdog sample code provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- Intel Atom® Processor C3000 Series
- 2 x GbE RJ45, 4 x 2.5GbE RJ45, 2 x Combo
- Support rackmount installation
- Desktop Network hardware Appliance
- DDR4 2133/2400 MHz SO-DIMM, Max. Capacity 64GB
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification			
Platform	CPU	C3338R dual-core	C3558R quad-core	C3758R octa-core	Support Intel Atom® Processor C3000 Series
	Base frequency	1.8GHz	2.4GHz	2.4GHz	referred to specific CPU type
	BIOS	UEFI			
	Chipset	SoC			
RAM	Type	2 x DDR4 2133/2400 MHz, SO-DIMM, ECC/Non ECC			
	Capacity	Max. Capacity 64GB			
Network	Ports	2 x GbE RJ45, 4 x 2.5GbE RJ45, 2 x Combo			
	Controller	2 x Marvell 88E1514, 4 x Intel® I226-V, 1 x Marvell 88E1543			
	Bypass	GEN3, LAN1 ~ LAN2, LAN3 ~ LAN4, LAN5 ~ LAN6			
Expansion	NIC	N/A			
	miniPCle	1 x miniPCle			
	SIM	2 x Micro SIM Slot			
	M.2	1 x M.2 for 4G/5G, 1 x M.2 for WiFi			
	4G/5G/WiFi	Support (Optional)			
I/O	Console	1 x RJ45 Console, 1 x pin header			
	USB	2 x USB2.0			
	GPIO	8			
Storage	HDD/SSD	1 x 2.5"SATA HDD			
	eMMC	1 x eMMC			
	mSATA	1 x mSATA			
Power	Power	Built-in single power, AC 100~240V 50~60Hz, 65W			
Control & Signal	Indicator	1 x HDD, 1 x Power, 1 x GPIO, 3 x Bypass (Optional), 1 x SOHO special pair (Power, HDD, Port, Bypass LED, Optional)			
	Power switch	1 x Power switch			
	Button	1 x Custom button			
Cooling	Cooling fan	1 x System Fan			
Mechanic & Environment	Platform	Desktop, 310 x 203 x 44 mm (W x D x H)			
	Operating temperature	0℃ ~ 40℃			
	Storage humidity	Storage Temperature: -40℃ ~ 70℃, Storage Humidity: 5 ~ 95%, non-condensing			
	Package	Double-layer packaging (customized)			
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later			
	Software	GPIO/Bypass/Watchdog routines provided			
Product Certification	Certifications	Compliance with EMC, RoHS, CE, FCC			



- Intel Atom® C processor, supports QAT
- 6 x GbE RJ45, or 4 x GbE RJ45 + 2 x GbE SFP
- Built-in eMMC and M.2 SSD storage, expandable via SATA for greater capacity
- DDR4 2133/2400 memory, maximum capacity 32GB
- Support dual 4G LTE and Wi-Fi
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification		
Platform	CPU	C3558R	C3338R	Intel Atom®C Series (CPU optional)
	Base frequency	2.4GHz	1.8GHz	Refer to the specific CPU
	Chipset	SoC		
RAM	Type	Support DDR4 2133/2400 MHz		
	Capacity	Max capacity: 32GB		
	Slot	1 x DDR4 SO-DIMM		
Network	Ports	6 x GbE RJ45 or 4 x GbE RJ45, 2 x GbE SFP		
	Controllers	2 x Intel® I210-AT/I210-AS, 1 x Marvell 88E1543		
	Bypass	2 pairs (GEN3), LAN3~LAN4, LAN5~LAN6		
Expansion	PCIe	N/A		
	miniPCIe	1 x miniPCIe		
	M.2	2 x M.2 for 4G/5G		
	SIM	2 x Micro SIM card slot		
	WiFi	Optional		
Storage	HDD/SSD	Optional		
	mSATA	N/A		
	eMMC	1 x eMMC		
	M.2	1 x M.2 (SATA)		
I/O	Console	1 x RJ45 Console		
	USB	Upper: 1 x USB3.0, Lower: 1 x USB3.0		
	GPIO	4		
Control & Signal	Indicator	Refer to the interface layout for details		
	Button	1 x Custom button		
	Cooling	CPU active cooler		
Power	Type	AC 100~240V 50~60Hz, 60W, Power adapter		
Mechanical & Environmental	Dimensions	240 x 200 x 44 mm (W x D x H)		
	Operating temperature	0℃ ~ 40℃		
	Storage environment	Storage temperature: -40℃ ~ 70℃, Storage humidity: 5% ~ 95%, non-condensing		
TPM	TPM	Support		
System & Software	OS	Linux, FreeBSD9.2 or later, Windows.7 or later		
	Software	GPIO/Bypass/Watchdog routines provided		
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC		



- Support 12th/13th/14th Intel® i9/ i7/i5/i3/Pentium / Celeron processor
- DIMM DDR5, support 5600MHz, up to 192GB
- 1 x GbE RJ45, 8 x 2.5GbE RJ45, 2 x GbE SFP
- Support HDD, mSATA, M.2 (NVMe)
- 2 x NIC modules
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification
Platform	CPU	12th/13th/14th Intel® i9/ i7/i5/i3/Pentium / Celeron Processor
	Chipset	Intel R680E chipset
BIOS	BIOS	UEFI
RAM	Type	DIMM DDR5 Up to 5600 MHz, ECC/Non ECC
	Capacity	Up to 192GB
	Slot	4 x DDR5 DIMMs
Network	Ports	1 x GbE RJ45, 8 x 2.5GbE RJ45, 2 x GbE SFP
	Controller	1 x Intel® I210-AT, 8 x Intel® I226, 2 x Intel® I210-AS
	Bypass	4 pairs, GEN3 (optional)
Storage	HDD/SSD	1 x 2.5" SATA HDD
	mSATA	1 x mSATA
	M.2	1 x M.2
Expansion	NIC expansion	2 x NIC expansion modules
	PCIe	1 x PCIe 8X expansion module
	M.2	1 x M.2 for 4G/5G
	miniPCIe	1 x miniPCIe
	WiFi	N/A
I/O	Console	1 x RJ45
	USB	2 x USB3.0
	GPIO	8
Display	HDMI	1 x HDMI (built-in), 1 x VGA (optional)
Power	Power	Single/Dual Power Supply, 250W (standard, single power supply), AC 100~240V 50~60Hz
TPM	TPM	Support
Control & Signal	Indicator	Refer to port layout
	Power switch	1 x Power switch
Cooling	Cooling system	2 x System fans
Mechanical & Environmental	Dimensions	440 x 560 x 44 mm (W x D x H)
	Operating temperature	0°C ~ 40°C
	Storage environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5~95%, non-condensing
	Packages	Double-layer neutral packaging (optional)
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- Support single-socket 4th/5th Gen Intel® Xeon® Scalable Processor
- Onboard Intel® C741 chipset
- Support 4 x PCIe5.0 NIC expansion modules
- DDR5 up to 5600MHz DIMM slots, supporting up to 4TB
- Support HDD, mSATA, M.2 (NVMe)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification
Platform	CPU	4th/5th Gen Intel® Xeon® scalable processor
	BIOS	UEFI
	Chipset	Intel® C741
RAM	Type	DDR5 up to 5600MHz ECC RDIMM
	Capacity	Up to 4TB
	Slot	16 x DDR5 DIMMs
Network	Ports	Support up to 34 network interfaces, NIC module defined
	Controller	NIC module defined
	Bypass	NIC module defined
I/O	Console	1 x RJ45 CONSOLE
	USB	2 x USB3.0
	GPIO	4
Expansion	NIC expansion	4 x NIC network expansion modules
	PCIe	N/A
	miniPCIe	1 x miniPCIe
	WiFi/4G/5G	N/A
Storage	HDD/SSD	1 x 2.5"SATA HDD
	M.2	1 x M.2 (NVMe)
	mSATA	1 x mSATA
TPM	TPM	Support
Display	Display	1 x VGA(optional)
Power	Power	AC 100 ~ 240V 50 ~ 60Hz, 550W, built-in CRPS redundant power supply
Control & Signal	Indicator	1 x Power, 1 x HDD
	Switch	1 x Power switch
Cooling	Cooling system	3 x Hot-swappable system fan modules
Mechanical & Environmental	Dimensions	440 x 592 x 44 mm (W x D x H)
	Operating temperature	0 C ~ 40 C
	Storage environment	Storage temperature: -40 C ~ 70 C , Storage humidity: 5 ~ 95%, non-condensing
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- ARM Rockchip RK3568 quad-core 64 Cortex-A55 processor
- 4 x GbE RJ45
- Support rack-mount installation
- On board DDR4 memory: 1 ~ 4GB optional
- Support 4G/5G/WiFi expansion
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification
Platform	CPU	ARM Rockchip RK3568 quad-core Cortex-A55
	Base frequency	Up to 2.0GHz
	Chipset	SoC
RAM	Type	DDR4 2400 MHz, Non ECC
	Capacity	Max capacity: 4GB
	Memory	Onboard memory
Network	Ports	4 x GbE RJ45
	Controller	LAN1 ~ LAN2 (RTL 8211F) , LAN3 ~ LAN4 (RTL 8111H)
	Bypass	N/A
I/O	Console	1 x RJ45 Console (compatible with Cisco defined) , 1 x COM pin
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0 OTG
Expansion	M.2	2 x M.2 slot for 4G/5G
	SIM card	2 x Micro SIM slot
	miniPCle	1 x miniPCle (optional)
Storage	eMMC	1 x eMMC
	mSATA	1 x mSATA (optional)
	TF	1 x TF
Power	Power	Power adapter , AC 100~240V 50~60Hz , power input: 24W
TPM	TPM	Support
Control & Signal	Indicator	1 x HDD , 1 x power , 2 x 4G/5G indicator , 1 x WiFi
	Button	1 x Custom Button
Cooling	Cooling	CPU active cooler
Mechanic & environment	Dimensions	198 x 109 x 32mm (W x D x H)
	Operating temperature	0℃ ~ 40℃
	Storage environment	Storage temperature: -40℃ ~ 70℃ , Storage humidity: 5 ~ 95%, non-condensing
System & Software	Operation system	Android/Linux
Product certification	Software	GPIO routines provided
	Certification	Compliance with EMC, RoHS, CE, FCC



- ARM Rockchip RK3568 quad-core 64 bit Cortex-A55 processor
- 5 x GbE RJ45, 1 x Combo (controller is independent MAC and PHY, non-switching chips)
- Onboard 8~512GB eMMC storage, with additional support for TF card and mSATA hard drive expansion
- DDR4 2400 RAM: 1~8GB
- Support 4G/5G/WiFi
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification
Platform	CPU	ARM Rockchip RK3568 quad-core Cortex-A55
	Base frequency	Up to 2.0GHz
	GPU	CPU integrated
RAM	Type	DDR4 2400MHz 1~8GB, Non ECC
Network	Ports	5 x GbE RJ45, 1 x Combo
	Controller	4 x RTL8111H (REALTEK), 2 x RTL8211FS (REALTEK PHY)
	Bypass	2 pairs optional (Gen3), LAN2~LAN3, LAN4~LAN5
Expansion	M.2	1 x M.2 for 4G/5G (mutually exclusive with SATA/mSATA)
	SIM slot	1 x SIM slot
	PCIe	1 x miniPCIe/PCIe X4
	WiFi	Support IEEE 802.11 Wi-Fi 5/6 (b/g/n/ac/ax), 2.4GHz & 5GHz, 4 x SMA ports
I/O	Console	1 x RJ45 Console (compatible with Cisco defined), 2 x pin headers
	USB	2 x USB 2.0
	GPIO	4
Storage	HDD/SSD	1 x mSATA (mutually exclusive with 5G functionality)
	eMMC	8~512GB eMMC FLASH storage optional
	TF	1 x TF card slot
Display	Display	1 x HDMI
Power	Power	AC 100~240V 50~60Hz, 24W, Power adapter
Control & Signal	Indicator	1 x HDD, 1 x power, 2 x Bypass (optional)
	Button	1 x Custom button
Cooling	Cooling	CPU active cooler
Mechanic & environment	Dimension	210 x 140 x 30 mm (W x D x H)
	Operating temperature	0°C ~ 40°C
	Storage environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5%~95%, non-condensing
	Package	Double-layer neutral packaging (customized)
System & Software	Operation system	Android/Linux
	Software	GPIO/Bypass/Watchdog routines provided
Product certification	Certification	Compliance with EMC, RoHS, CE, FCC



- ARM Phytium E2000 quad-core processor, up to 2.0GHz
- 8 x GbE RJ45, 2 x GbE RJ45/SFP Combo
- Support eMMC, TF
- DDR4 memory, maximum capacity 64GB, support both ECC and non-ECC
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification
Platform	CPU	ARM Phytium E2000 quad-core processor 2.0GHz
	Chipset	SoC
	UBIOS	UEFI
RAM	Type	DDR4, 2400MHz, ECC or non-ECC
	Capacity	Up to 64GB
Network	Ports	8 x GbE RJ45, 2 x RJ45/SFP Combo
	Controller	6 x RTL8111H, 4 x RTL8211
	Bypass	1 pair(Gen3), LAN3~LAN4
Storage	eMMC	1 x eMMC
	TF	1 x TF
	HDD/SDD	N/A
	mSATA	N/A
I/O	Console	1 x RJ45 Console, 4 x COM pin headers
	USB	2 x USB2.0
	GPIO	8
	Display	1 x VGA (optional)
Expansion	M.2	1 x M.2 for 4G/5G
	miniPCle	1 x miniPCle
	SIM	1 x Micro SIM card slot
	Encryption	Encryption card expandable through miniPCle (USB 2.0)
Power	Power	AC 100~240V 50~60Hz, 60W, Power adapter
Control & Signal	Indicator	1 x Bypass, 1 x power, 1 x HDD, 1 x 4G/5G
	Button	1 x Custom button
Cooling	Cooling system	CPU active cooler
Mechanical & Environmental	Dimensions	230 x 176 x 44 mm (W x D x H)
	Operating temperature	0°C ~40°C
	Storage environment	Storage temperature: -40°C ~70°C Storage humidity: 5~95%, non-condensing
	Package	Double-layer neutral packaging (optional)
System & Software	OS	Kylin OS, Ubuntu
	Software	GPIO/Bypass/Watchdog sample code provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- Intel Atom® Processor C3000 Series
- 2 x GbE RJ45, 4 x 2.5GbE RJ45, 2 x Combo
- Support rackmount installation
- Desktop Network hardware Appliance
- DDR4 2133/2400 MHz SO-DIMM, Max. Capacity 64GB
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification			
Platform	CPU	C3338R dual-core	C3558R quad-core	C3758R octa-core	Support Intel Atom® Processor C3000 Series
	Base frequency	1.8GHz	2.4GHz	2.4GHz	referred to specific CPU type
	BIOS	UEFI			
	Chipset	SoC			
RAM	Type	2 x DDR4 2133/2400 MHz, SO-DIMM, ECC/Non ECC			
	Capacity	Max. Capacity 64GB			
Network	Ports	2 x GbE RJ45, 4 x 2.5GbE RJ45, 2 x Combo			
	Controller	2 x Marvell 88E1514, 4 x Intel® I226-V, 1 x Marvell 88E1543			
	Bypass	GEN3, LAN1 ~ LAN2, LAN3 ~ LAN4, LAN5 ~ LAN6			
Expansion	NIC	N/A			
	miniPCle	1 x miniPCle			
	SIM	2 x Micro SIM Slot			
	M.2	1 x M.2 for 4G/5G, 1 x M.2 for WiFi			
	4G/5G/WiFi	Support (Optional)			
I/O	Console	1 x RJ45 Console, 1 x pin header			
	USB	2 x USB2.0			
	GPIO	8			
Storage	HDD/SSD	1 x 2.5"SATA HDD			
	eMMC	1 x eMMC			
	mSATA	1 x mSATA			
Power	Power	Built-in single power, AC 100~240V 50~60Hz, 65W			
Control & Signal	Indicator	1 x HDD, 1 x Power, 1 x GPIO, 3 x Bypass (Optional), 1 x SOHO special pair (Power, HDD, Port, Bypass LED, Optional)			
	Power switch	1 x Power switch			
	Button	1 x Custom button			
Cooling	Cooling fan	1 x System Fan			
Mechanic & Environment	Platform	Desktop, 310 x 203 x 44 mm (W x D x H)			
	Operating temperature	0℃ ~ 40℃			
	Storage humidity	Storage Temperature: -40℃ ~ 70℃, Storage Humidity: 5 ~ 95%, non-condensing			
	Package	Double-layer packaging (customized)			
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later			
	Software	GPIO/Bypass/Watchdog routines provided			
Product Certification	Certifications	Compliance with EMC, RoHS, CE, FCC			



- Intel Atom® C processor, supports QAT
- 6 x GbE RJ45, or 4 x GbE RJ45 + 2 x GbE SFP
- Built-in eMMC and M.2 SSD storage, expandable via SATA for greater capacity
- DDR4 2133/2400 memory, maximum capacity 32GB
- Support dual 4G LTE and Wi-Fi
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification		
Platform	CPU	C3558R	C3338R	Intel Atom®C Series (CPU optional)
	Base frequency	2.4GHz	1.8GHz	Refer to the specific CPU
	Chipset	SoC		
RAM	Type	Support DDR4 2133/2400 MHz		
	Capacity	Max capacity: 32GB		
	Slot	1 x DDR4 SO-DIMM		
Network	Ports	6 x GbE RJ45 or 4 x GbE RJ45, 2 x GbE SFP		
	Controllers	2 x Intel® I210-AT/I210-AS, 1 x Marvell 88E1543		
	Bypass	2 pairs (GEN3), LAN3~LAN4, LAN5~LAN6		
Expansion	PCIe	N/A		
	miniPCIe	1 x miniPCIe		
	M.2	2 x M.2 for 4G/5G		
	SIM	2 x Micro SIM card slot		
	WiFi	Optional		
Storage	HDD/SSD	Optional		
	mSATA	N/A		
	eMMC	1 x eMMC		
	M.2	1 x M.2 (SATA)		
I/O	Console	1 x RJ45 Console		
	USB	Upper: 1 x USB3.0, Lower: 1 x USB3.0		
	GPIO	4		
Control & Signal	Indicator	Refer to the interface layout for details		
	Button	1 x Custom button		
	Cooling	CPU active cooler		
Power	Type	AC 100~240V 50~60Hz, 60W, Power adapter		
Mechanical & Environmental	Dimensions	240 x 200 x 44 mm (W x D x H)		
	Operating temperature	0℃~40℃		
	Storage environment	Storage temperature: -40℃~70℃, Storage humidity: 5%~95%, non-condensing		
TPM	TPM	Support		
System & Software	OS	Linux, FreeBSD9.2 or later, Windows.7 or later		
	Software	GPIO/Bypass/Watchdog routines provided		
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC		



- Support single-socket 4th/5th Gen Intel® Xeon® Scalable Processor
- Onboard Intel® C741 chipset
- Support 4 x PCIe5.0 NIC expansion modules
- DDR5 up to 5600MHz DIMM slots, supporting up to 4TB
- Support HDD, mSATA, M.2 (NVMe)
- Compliance with EMC, RoHS, CE, FCC

Type	Parameter	Specification
Platform	CPU	4th/5th Gen Intel® Xeon® scalable processor
	BIOS	UEFI
	Chipset	Intel® C741
RAM	Type	DDR5 up to 5600MHz ECC RDIMM
	Capacity	Up to 4TB
	Slot	16 x DDR5 DIMMs
Network	Ports	Support up to 34 network interfaces, NIC module defined
	Controller	NIC module defined
	Bypass	NIC module defined
I/O	Console	1 x RJ45 CONSOLE
	USB	2 x USB3.0
	GPIO	4
Expansion	NIC expansion	4 x NIC network expansion modules
	PCIe	N/A
	miniPCIe	1 x miniPCIe
	WiFi/4G/5G	N/A
Storage	HDD/SSD	1 x 2.5"SATA HDD
	M.2	1 x M.2 (NVMe)
	mSATA	1 x mSATA
TPM	TPM	Support
Display	Display	1 x VGA(optional)
Power	Power	AC 100~240V 50~60Hz,550W, built-in CRPS redundant power supply
Control & Signal	Indicator	1 x Power, 1 x HDD
	Switch	1 x Power switch
Cooling	Cooling system	3 x Hot-swappable system fan modules
Mechanical & Environmental	Dimensions	440 x 592 x 44 mm (W x D x H)
	Operating temperature	0℃~40℃
	Storage environment	Storage temperature: -40℃~70℃, Storage humidity: 5~95%,non-condensing
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certification	Compliance with EMC, RoHS, CE, FCC



- Support 4th/5th Gen Intel® Xeon® Scalable processor
- Onboard Intel® C741 chipset
- 18 x GbE RJ45, 8 x GbE SFP, 8 x 10GE SFP+, and 4 x NIC expansion modules
- DDR5 up to 5600MHz DIMMs slot, max capacity of 4TB
- Support HDD, mSATA, M.2 (NVMe)
- Compliance with EMC, RoHS, CE, FCC

Item	Parameter	Specification
Platform	CPU	Support 4th/5th Gen Intel® Xeon® scalable processor
	BIOS	UEFI
	Chipset	Intel® C741
RAM	Type	DDR5 up to 5600MHz ECC RDIMM
	Capacity	Up to 4TB
	Slot	16 x DDR5 DIMMs
Network	Ports	18 x GbE RJ45, 8 x GbE SFP, 8 x 10GbE SFP+
	Controller	Switch Processor
	Bypass	4 pairs, GEN3(optional)
I/O	Console	1 x RJ45
	USB	2 x USB3.0
	GPIO	8
Expansion	NIC expansion	4 x NIC network expansion modules
	PCIe	1 x PCIe 16X expansion module
	miniPCIe	1 x miniPCIe
Storage	HDD	2 x 2.5"/3.5"SATA HDD
	M.2	1 x M.2 (NVMe)
	mSATA	1 x mSATA
Display	Display	1 x VGA(optional)
TPM	TPM	Support
Power	Power	AC 100 ~ 240V 50 ~ 60Hz, built-in CRPS 550W redundant power supply
Control & Signal	Indicator	1 x power, 1 x status
	Power switch	1 x power switch
Cooling	Cooling system	3 x hot-swappable system fan modules
Mechanical & Environmental	Dimensions	440 x 592 x 88 mm (W x D x H)
	Operating temperature	0 °C ~ 40 °C
	Storage environment	Storage temperature: -40 °C ~ 70 °C, Storage humidity: 5 ~ 95%, non-condensing
System & Software	OS	Linux, FreeBSD9.2 or later, Windows7 or later
	Software	GPIO/Bypass/Watchdog routines provided
Product Certification	Certifications	Compliance with EMC, RoHS, CE, FCC



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