maituo

Your Reliable Partner for Network Hardware Appliances



Network Hardware Appliance Selection Guide

Expertise in x86, ARM, C86,and converged-technology products
Products covering network hardware platforms | edge computing | AI | IIoT

www.imaituo.com

Product Selection Guide 2026 V1.0

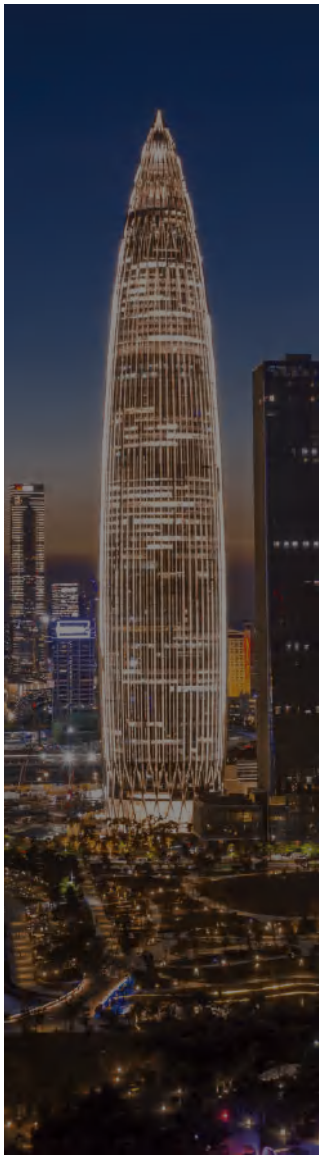
About MAITUO

Founded in 2012, MAITUO is dedicated to building a safer and more advanced digital world. We focus on network appliance hardware and serve global customers through strong software and hardware R&D capabilities, proven engineering expertise, and deep insight into industry-specific hardware requirements. Since our establishment, millions of MAITUO-developed and manufactured products have been deployed and operating reliably in server rooms, data centers, and IT infrastructure environments worldwide.



Your Reliable Partner for Network Hardware Appliances

Why Choose MAITUO?





Robust Technical Strength

Over 40% of the workforce is dedicated to R&D.
15% of annual revenue is invested into R&D.



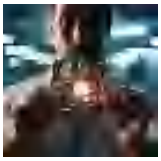
Complete Product Lineup

MAITUO focuses on the R&D of network appliance hardware for network security, communications, and related fields. Our product portfolio spans entry-level, mainstream, high-performance, and fanless series, as well as expansion modules.



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 2026), 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 our establishment, we have received multiple honors and certifications, including recognition as a National High-Tech Enterprise and a Specialized, Refined, Distinctive and Innovative SME. We have also obtained ISO 9001, ISO 14001, ISO 45001, IECQ QC080000, CCC, FCC, CE, and KC certifications, and hold multiple national invention patents.



R&D & Innovation

Since our establishment, we have received multiple honors and certifications, including recognition as a National High-Tech Enterprise and a Specialized, Refined, Distinctive and Innovative SME. We have also obtained ISO 9001, ISO 14001, ISO 45001, IECQ QC080000, CCC, FCC, CE, and KC certifications, and hold multiple national invention patents.

Over 20 Years

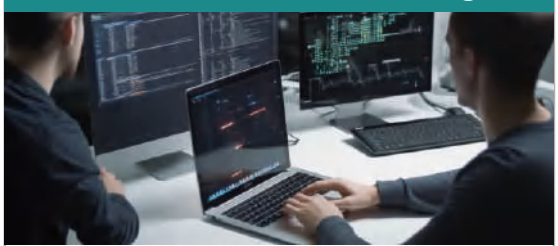
Senior R&D Team with Extensive Industry Expertise

460+

R&D Achievements

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

Board & Card R&D Design



New Product Development Cycle: **Within 3 months**

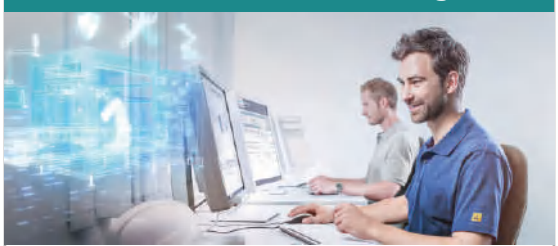
Average Team Experience: **Over 17 years**

Solutions include

X86 | ARM | China-origin Platforms

NIC | Switching | Wireless

Mechanical R&D Design



New Product Development Cycle: **Within 7 Days**

Average Team Experience: **Over 15 years**

Expertise in

System Layout | ID Modeling | Engineering Tooling

Low-Level Software R&D Design



New Product Development Cycle: **Within 15 Days**

Average Team Experience: **Over 15 years**

Expertise in

BIOS | Firmware | SDK | Driver

Designs for various network ports



1G to 200G Ethernet/Optical/Combo

DPDK- and IPsec-based optimization design

Network acceleration based on hardware and low-level system optimization

Manufacturing

Intelligent Manufacturing

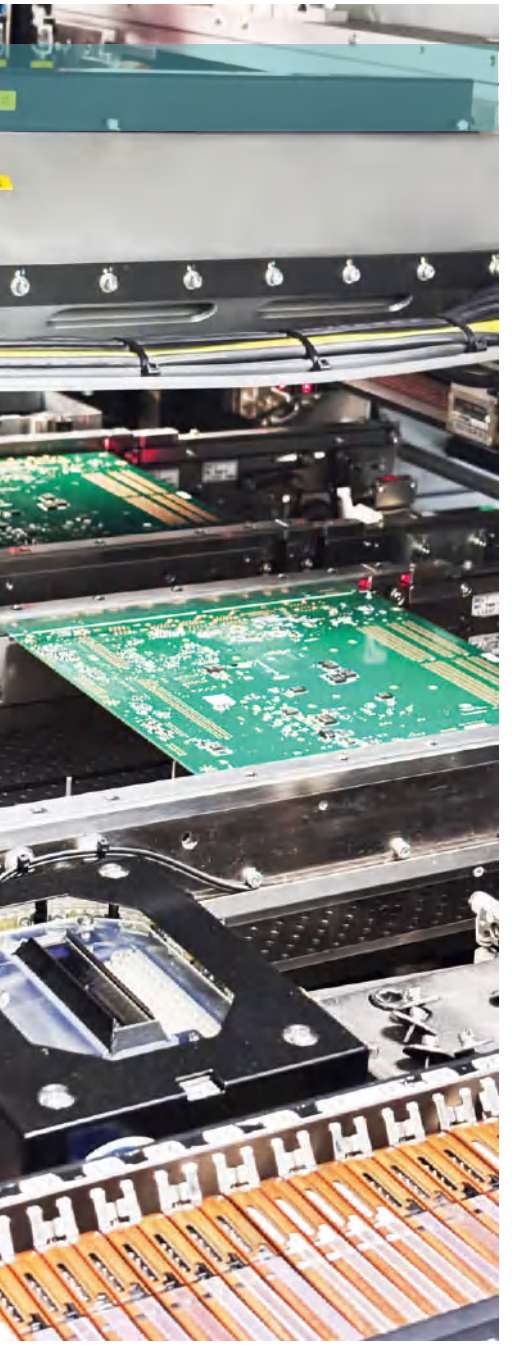
- An advanced and fully equipped production line
- Annual capacity: hundreds of thousands of units
- 13 SMT lines, 5 motherboard test lines, 2 assembly lines, 2 testing lines, 2 automated packaging lines, and an intelligent burn-in room

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, IECQ QC 080000: 2017.

6 Product Certifications

All MAITUO products comply with the certification requirements of the countries and regions where they are sold, including FCC (USA), CE (EU), KC (Korea), CCC (China), and others. In addition, all products comply with RoHS and other applicable environmental regulations. For specific industries and application scenarios, MAITUO can work closely with customers to meet the 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

Establish a green supply chain system while promoting energy-saving and low-carbon production.

Operations Management

Implementing green management processes, adopting paperless operations, and reducing 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 global logistics and service network to better serve customers worldwide. In the future, we plan to establish primary finished goods and spare parts warehouses in North America, Europe, South Korea, and India, along with regional secondary spare parts centers to ensure timely product delivery and reliable after-sales support for customers in these regions.





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.

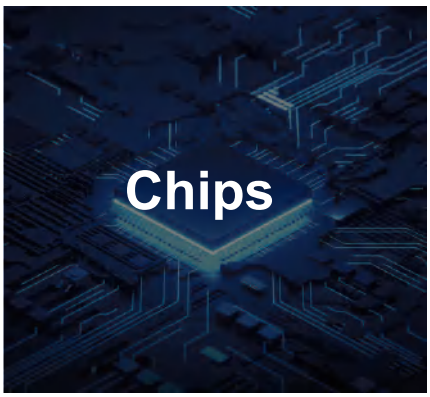


Instant Communication

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.



intel
Rockchip 瑞芯微电子
MARVELL
MEDIATEK
AMD
NXP
REALTEK
Mellanox
Qualcomm
BROADCOM
Infineon
Phytium 飞腾



Panabit
VERSA NETWORKS
flexiWAN
Juniper
zscaler
iKuai
BSP
OpenWrt
沃洛软件技术有限公司
OWIND
ubuntu
CentOS
openSUSE
Red Hat
Adtran
KYLINSOFT 麒麟软件



uboot
ami
OurBMC

Products & Services

Widely Applied Across Industries

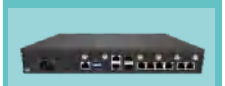








MAITUO focuses on the network communications field and has developed five major product lines:

Entry-level Series	Mainstream Series	High-performance Series	Fanless Series	Expansion Modules
				
Desktop	Desktop	1U Rackmount	China-localized Products	Network Expansion Modules
1U Rackmount	1U Rackmount	2U Rackmount	Global-platform Products	Function Expansion Modules
2U Rackmount	2U Rackmount			
GAP Appliance	GAP Appliance			



Product Specifications Overview

- Entry-level Series
- Mainstream Series
- High-performance Series
- Fanless Series
- Expansion 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. Entry-level Series



Model		NSC-2L03	NSC-2106	NSC-2E03	NSC-2K13	NSC-2153	NSC-2133	NSC-2A03	NSC-2803	NSC-2903	NSC-25A3	NSC-2TA3	NSC-2C03	NSC-6503	NSC-4AA3	NSC-54A3	NSC-1303
Form Factor		Desktop	Desktop	Desktop	Desktop	Desktop	Desktop	Desktop	Desktop	Desktop	Desktop	Desktop	Desktop	Desktop	Desktop	Desktop	Desktop
Platform	Processor	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	China-developed Phytium E2000Q	MediaTek MT7981B	China-developed Hygon C86 1500 Series CPU	CORTINA CA8299
	CPU Cores	4	4	4	4	4	4	4	4	4	4	4	4	4	2	/	4
	Frequency	Up to 2.0GHz	Up to 2.0GHz	Up to 2.0GHz	Up to 2.0GHz	Up to 2.0GHz	Up to 2.0GHz	Up to 2.0GHz	Up to 2.0GHz	Up to 2.0GHz	Up to 2.0GHz	Up to 2.0GHz	Up to 2.0GHz	2.0GHz	1.3GHz	2.0GHz	2.0GHz
Chipset		SoC	SoC	SoC	SoC	SoC	SoC	SoC	SoC	SoC	SoC	SoC	SoC	SoC	SoC	SoC	SoC
RAM	Type	DDR4	DDR4	DDR4	LPDDR4	DDR4	DDR4	DDR4	DDR4	DDR4	DDR4	DDR4	DDR4	DDR4	DDR4	DDR5	LPDDR5
	Capacity（MAX）	8GB	8GB	8GB	8GB	8GB	8GB	8GB	8GB	8GB	8GB	8GB	8GB	16GB	1GB	/	8GB
Network Interface	RJ45 Port	2 x GbE RJ45	3 x GbE RJ45	4 x GbE RJ45	4 x GbE RJ45	4 x GbE RJ45	5 x GbE RJ45	3 x GbE RJ45	1 x GbE RJ45 2 x 2.5GbE RJ45	5 x GbE RJ45	5 x GbE RJ45	5 x GbE RJ45	8 x GbE RJ45	8 x GbE RJ45	4 x GbE RJ45	6 x GbE RJ45	6 x 2.5GbE RJ45
	Optical Port	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2 x 10GbE SFP+ 1 x OLT
	Combo	/	/	2 x GbE RJ45/SFP (optional)	/	/	/	2 x GbE RJ45/SFP	2 x GbE RJ45/SFP	1 x GbE RJ45/SFP	2 x GbE RJ45/SFP	2 x GbE RJ45/SFP	2 x GbE RJ45/SFP	2 x GbE RJ45/SFP	/	2 x GbE RJ45/SFP	/
Bypass		/	/	1 pair (optional)	/	1 pair (optional)	2 pairs (optional)	1 pair (optional)	1 pair (optional)	2 pairs (optional)	2 pairs (optional)	2 pairs (optional)	4 pairs (optional)	1 pair (optional)	2 pairs (optional)	3 pairs (optional)	1 pair (optional)
NIC Expansion Module		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Storage	SATA HDD	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	mSATA	1	/	1	1	1	1	1	1	1	1	1	1	/	/	/	/
	TF	1	1	1	1	1	1	1	1	1	1	1	1	1	/	/	/
	eMMC	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	M.2(NVMe)	/	1	/	/	/	/	/	/	/	/	/	/	/	/	1	1
	M.2(SATA)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
CONSOLE		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
USB		4 x USB 3.0 6 x USB 2.0	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	1 x USB	2 x USB	2 x USB
4G/5G		1 x 4G/5G	1 x 4G/5G	2 x 4G	2 x 4G/5G	1 x 4G/5G	1 x 4G/5G	1 x 4G/5G	2 x 4G/5G	1 x 4G/5G	1 x 4G/5G	1 x 4G/5G	2 x 4G/5G	1 x 4G/5G	1 x 4G/5G	1 x 4G/5G	/
Wi-Fi		/	/	1 x Wi-Fi	1 x Wi-Fi	1 x Wi-Fi	/	1 x Wi-Fi	/	1 x Wi-Fi	/	/	1 x Wi-Fi	/	1 x Wi-Fi	/	/
Other		China-localized	China-localized	China-localized	China-localized, TPM2.0	China-localized	China-localized	China-localized	China-localized	China-localized	China-localized	China-localized	China-localized	China-localized	ARM architecture	Hygon C86 platform	ARM architecture
Power Input		Power adapter	Power adapter	Power adapter	Power adapter	Power adapter	Power adapter	Power adapter	Power adapter	Power adapter	Power adapter	Power adapter	Power adapter	Power adapter	Power adapter	Power adapter	Power adapter
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I. Entry-level Series



Model		NSC-1403	NSC-99A3	NSC-2L01	NSC-2111	NSC-2A11	NSC-2821	NSC-2E01	NSC-2901	NSC-1107	NSC-2H01	NSC-2C01	NSC-2N01	NSC-6401	NSC-99AA	NSC-2H12
Form Factor		Desktop	Desktop	1U rackmount	1U rackmount	1U rackmount	1U rackmount	1U rackmount	1U rackmount	1U rackmount	1U rackmount	1U rackmount	1U rackmount	1U rackmount	1U rackmount	2U rackmount
Platform	Processor	CORTINA CA8299	Intel N100 / i3-N305 / Atom x7000C series	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	Rockchip RK3568	China-developed Phytium E2000Q	Intel N100 / i3-N305 / Atom x7000C series	Rockchip RK3568
	CPU Cores	4	Depends on the specific CPU	4	4	4	4	4	4	4	4	4	4	4	Depends on the specific CPU	4
	Frequency	2.0GHz	Depends on the specific CPU	Up to 2.0GHz	Up to 2.0GHz	Up to 2.0GHz	Up to 2.0GHz	Up to 2.0GHz	Up to 2.0GHz	Up to 2.0GHz	Up to 2.0GHz	Up to 2.0GHz	Up to 2.0GHz	2.0GHz	Depends on the specific CPU	Up to 2.0GHz
Chipset		SoC	SoC	SoC	SoC	SoC	SoC	SoC	SoC	SoC	SoC	SoC	SoC	SoC	SoC	SoC
RAM	Type	LPDDR5	DDR5	DDR4	DDR4	DDR4	DDR4	DDR4	DDR4	DDR4	DDR4	DDR4	DDR4	DDR4	DDR5	DDR4
	Capacity（MAX）	8GB	16GB	8GB	8GB	8GB	8GB	8GB	8GB	8GB	8GB	8GB	8GB	16GB	16GB	8GB
Network Interface	RJ45 Port	6 x 2.5GbE RJ45	4 x 2.5GbE RJ45/ 6 x 2.5GbE RJ45	2 x GbE RJ45	5 x GbE RJ45	3 x GbE RJ45	1 x GbE RJ45 2 x 2.5GbE RJ45	4 x GbE RJ45	5 x GbE RJ45	5 x GbE RJ45	6 x GbE RJ45/8 x GbE RJ45	8 x GbE RJ45	10 x GbE RJ45	6 x GbE RJ45	4 x 2.5GbE RJ45/ 6 x 2.5GbE RJ45	6 x GbE RJ45/ 8 x GbE RJ45
	Optical Port	2 x 10GbE SFP+	/	/	/	/	/	/	/	/	2 x GbE SFP(optional)	/	8 x GbE SFP 4 x 10GbE SFP+	2 x 10GbE SFP+	/	2 x GbE SFP (optional)
	Combo	/	/	/	/	2 x GbE RJ45/SFP	2 x GbE RJ45/SFP	2 x GbE RJ45/SFP	1 x GbE RJ45/SFP	2 x GbE RJ45/SFP	/	2 x GbE RJ45/SFP	/	2 x GbE RJ45/SFP	/	/
Bypass		1 pair (optional)	1 pair/2 pairs (optional)	/	2 pairs (optional)	1 pair (optional)	1 pair (optional)	2 pairs (optional)	2 pairs (optional)	2 pairs (optional)	2 pairs (optional)	4 pairs (optional)	4 pairs (optional)	2 pairs (optional)	1 pair/2 pairs (optional)	2 pairs (optional)
NIC Expansion Module		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Storage	SATA HDD	/	/	1 x 2.5" /3.5" SATA HDD		1 x 2.5"/3.5"SATA HDD / 1 x 2.5"SATA SSD	1 x 2.5"/3.5" SATA HDD	1 x 2.5"/3.5"SATA HDD / 1 x 2.5"SATA SSD	1 x 2.5"/3.5"SATA HDD /1 x 2.5"SATA SSD	1 x 2.5"/3.5"SATA HDD /1 x 2.5"SATA SSD	1 x 2.5"/3.5" SATA HDD	1 x 2.5"/3.5"SATA HDD /1 x 2.5"SATA SSD	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
	mSATA	/	1	1	1	1 （optional）	1	1（optional）	1	1	1	1（optional）	1	1	1	1
	TF	/	/	1	1	1	1	1	1	1	1	1	1	1	/	1
	eMMC	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	M.2(NVMe)	1	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	M.2(SATA)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
CONSOLE		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
USB		2 x USB	2 x USB	4 x USB 3.0 6 x USB 2.0	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB
4G/5G		2 x 4G/5G	/	1 x 4G/5G	1 x 4G/5G	1 x 4G/5G	2 x 4G/5G	2 x 4G	1 x 4G/5G	1 x 4G/5G	/	2 x 4G/5G	1 x 4G/5G	1 x 4G/5G	/	/
Wi-Fi		1 x Wi-Fi	/	/	1 x Wi-Fi	1 x Wi-Fi	/	2 x Wi-Fi	1 x Wi-Fi	1 x Wi-Fi	/	1 x Wi-Fi	1 x Wi-Fi	/	/	/
Other		ARM architecture	x86 platform	China-localized	China-localized	China-localized	China-localized	China-localized	China-localized	China-localized	China-localized	China-localized	China-localized	China-localized	x86 platform	China-localized
Power Input		Power adapter	Power adapter	Single/dual/redundant power supplies	Single/dual power supplies	Single power supply	Single/dual/redundant power supplies	Single/dual/redundant power supplies	Single/dual/redundant power supplies	Single power supply	Single/dual power supplies	Single/dual/redundant power supplies	Single/dual/redundant power supplies	Single power supply	Single power supply	Single/dual/redundant power supplies
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II. Mainstream Series



Model		NSC-5012	NSC-7503	NSC-5101	NSC-67AA	NSC-53AA	NSC-55AA	NSC-52AA	NSC-5013	NSC-7401	NSC-7411	NSC-5016	NSC-7701	NSC-8C01	NSC-8D01	NSC-82AA	NSC-5102
Form Factor		Desktop	Desktop	1U rackmount	1U rackmount	1U rackmount	1U rackmount	1U rackmount	1U rackmount	1U rackmount	1U rackmount	1U rackmount	1U rackmount	1U rackmount	1U rackmount	2U rackmount	2U rackmount
Platform	Processor	Intel Atom® Denverton C3000 series	Intel Atom® Denverton C3000 series	China-developed Hygon C86-4G Processor (default: Hygon 3490)	China-developed Phytium E2000Q Processor	China-developed Hygon 1500 series CPU	China-developed Hygon C86-4G Processor (default: Hygon 3450E)	China-developed Hygon C86-4G Processor (default: Hygon 3450E)	Intel Atom® Denverton C3000 series	Intel Atom® Denverton C3000 series	Intel Atom® Denverton C3000 series	Intel Atom® Denverton C3000 series	Intel Atom® Denverton C3000 series	Intel®12th/13th/14th Gen Core™/Pentium®/ Celeron® processor	Intel®12th/13th/14th Gen Core™/Pentium®/ Celeron® processor	Intel®12th/13th/14th Gen Core™/Pentium®/ Celeron® processor	China-developed Hygon C86-4G processor (default: Hygon 3490)
	CPU Cores	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	4	/	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU
	Frequency	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Up to 2.0GHz	2.0GHz	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU
Chipset		SoC	SoC	/	/	SoC	/	/	SoC	SoC	SoC	SoC	SoC	Intel® R680E	Intel® R680E	Intel® H610	/
RAM	Type	DDR4	DDR4	DDR5	DDR4	DDR5	DDR5	DDR5	DDR4	DDR4	DDR4	DDR4	DDR4	DDR5	DDR5	DDR5	DDR5
	Capacity（MAX）	128GB	64GB	128GB	16GB	/	128GB	128GB	128GB	128GB	128GB	128GB	128GB	192GB	192GB	128GB	128GB
Network Interface	RJ45 Port	2 x GbE RJ45 4 x 2.5GbE RJ45	6 x GbE RJ45/4 x GbE RJ45	2 x GbE RJ45	9 x GbE RJ45	8 x GbE RJ45	/	1 x GbE RJ45	2 x GbE RJ45 4 x 2.5GbE RJ45	6 x GbE RJ45	6 x GbE RJ45	8 x GbE RJ45	6 x GbE RJ45	2 x GbE RJ45	1 x GbE Rj45 8 x 2.5GbE Rj45	1 x GbE RJ45 6 x 2.5GbE RJ45	2 x GbE RJ45
	Optical Port	/	2 x GbE SFP (optional)	/	8 x GbE SFP 4 x 10GbE SFP+	8 x GbE SFP 4 x 10GbE SFP+	24 x 10GbE SFP+ 2 x 40GbE QSFP+	44 x 10GbE SFP+ 4 x 25GbE SFP28 6 x 100GbE QSFP28	/	4 x 10GbE SFP+	4 x 10GbE SFP+	2 x GbE SFP (optional) 2 x 10GbE SFP+ (optional)	2 x 10GbE SFP+	/	2 x GbE SFP	/	/
	Combo	2 x GbE RJ45/SFP	/	/	/	/	/	/	2 x GbE RJ45/SFP	/	/	/	/	/	/	/	/
Bypass		3 pairs (optional)	2 pairs (optional)	Supported via expansion card	4 pairs (optional)	4 pairs (optional)	/	/	3 pairs (optional)	3 pairs (optional)	3 pairs (optional)	3 pairs (optional)	3 pairs (optional)	Supported via expansion card	4 pairs (optional)	2 pairs (optional)	Supported via expansion card
NIC Expansion Module		/	/	4	1	1	1	/	1	1	2	1	1	4	2	1	4
Storage	SATA HDD	1 x 2.5"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	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	1 x 2.5"/3.5" SATA HDD	1 x 2.5"/3.5" SATA HDD	1 x 2.5" SATA HDD	1 x 2.5"/3.5" SATA HDD	1 x 2.5"/3.5" SATA HDD	3 x 2.5"/3.5" SATA HDD
	mSATA	1	/	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	TF	/	/	/	/	/	/	/	/	/	/	CF	/	/	/	/	/
	eMMC	1	1	/	1	1	/	/	1	1	1	1	1	/	/	/	/
	M.2(NVMe)	/	1	1	1	/	1	1	/	/	/	/	/	1	1	1	1
	M.2(SATA)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
CONSOLE		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1 x RJ45/1 x USB Type-C	1
USB		2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB
4G/5G		1 x 4G/5G	2 x 4G/5G	/	/	/	/	/	1 x 4G/5G	1 x 4G/5G	1 x 4G/5G	1 x 4G/5G	/	/	1 x 4G/5G	/	/
Wi-Fi		1 x Wi-Fi	1 x Wi-Fi	/	/	/	/	/	1 x Wi-Fi	/	/	1 x Wi-Fi	1 x Wi-Fi	1 x Wi-Fi	1 x Wi-Fi	/	/
Other		x86 platform	x86 platform, TPM2.0	Hygon C86 platform, TPM2.0	China-localized	Hygon C86 platform	Hygon C86 platform	Hygon C86 platform	x86 platform	x86 platform	x86 platform	x86 platform	x86 platform	x86 platform, TPM2.0	x86 platform, TPM2.0	x86 platform, TPM2.0	Hygon C86 platform, TPM2.0
Power Input		Single power supply	Power adapter	Redundant power supplies	Single/dual power supplies	Single/dual power supplies	Redundant power supply	Redundant power supplies	Single/dual power supplies	Single/dual power supplies	Single/dual power supplies	Single/dual/redundant power supplies	Single/dual/redundant power supplies	Redundant power supplies	Single/redundant power supplies	Redundant power supplies	Redundant power supplies
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II. Mainstream Series

III. High-performance Series

IV. Fanless Series














Model		NSC-7712	NSC-6025	NSC-8C02	NSC-8D02	NSC-7702	NSC-8031	NSC-8E01	NSC-8001	NSC-8E02	NSC-2UA5	NSC-R685	NSC-90A5
Form Factor		2U rackmount	2U rackmount	2U rackmount	2U rackmount	2U rackmount	1U rackmount	1U rackmount	2U rackmount	2U rackmount	Fanless product	Fanless product	Fanless product
Platform	Processor	Intel Atom® Denverton C3000 series	6th–9th Gen Intel® Xeon® E3 / Core™ / Pentium® / Celeron® processor	Intel® 12th/13th/14th Gen Core™/Pentium® / Celeron® processor	Intel® 12th/13th/14th Gen Core™/Pentium® / Celeron® processor	Intel Atom® Denverton C3000 series	1st/2nd Gen Intel® Xeon® scalable processor	4th/5th Gen Intel® Xeon® scalable processor	1st/2nd Gen Intel® Xeon® scalable processor	4th/5th Gen Intel® Xeon® scalable processor	Rockchip RK3568	Rockchip RK3568J	Intel® Alder Lake N or Intel Atom® x7000C series (default: Intel® N100)
	CPU Cores	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	4	4	Depends on the specific CPU
	Frequency	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Depends on the specific CPU	Up to 2.0GHz	Up to 2.0GHz	Depends on the specific CPU
Chipset		SoC	Intel® C236	Intel® R680E	Intel® R680E	SoC	Intel® C621	Intel® C741	Intel® C621	Intel® C741	SoC	SoC	SoC
RAM	Type	DDR4	DDR4	DDR5	DDR5	DDR4	DDR4	DDR5	DDR4	DDR5	DDR4	LPDDR4	DDR5
	Capacity（MAX）	128GB	64GB	192GB	192GB	128GB	384GB	4TB	384GB	4TB	8GB	8GB	32GB
Interface	RJ45 Port	6 x GbE RJ45	2 x GbE RJ45	2 x GbE RJ45	1 x GbE RJ45 8 x 2.5GbE RJ45	6 x GbE RJ45	2 x GbE RJ45	2 x GbE RJ45	2 x GbE RJ45	2 x GbE RJ45	1 x GbE RJ45 2 x 2.5GbE RJ45	4 x GbE RJ45	6 x GbE RJ45（4 x PoE+）
	Optical Port	2 x 10GbE SFP+	/	/	2 x GbE SFP	2 x 10GbE SFP+	/	/	/	/	/	/	/
	Combo	/	/	/	/	/	/	/	/	/	/	/	/
Bypass		3 pairs (optional)	Supported via expansion card	Supported via expansion card	4 pairs (optional)	3 pairs (optional)	Supported via expansion card	Supported via expansion card	Supported via expansion card	Supported via expansion card	/	/	1 pair (optional)
NIC Expansion Module		1	4	8	4	1	4	4	8	8	/	/	/
Storage	SATA HDD	2 x 2.5"/3.5" SATA HDD	4 x 2.5"/3.5" SATA HDD	2 x 2.5"/3.5" SATA HDD	2 x 2.5"/3.5" SATA HDD	2 x 2.5"/3.5" SATA HDD	1 x 2.5" SATA HDD	1 x 2.5" SATA HDD	2 x 2.5"/3.5" SATA HDD	2 x 2.5"/3.5" SATA HDD	/	/	/
	mSATA	1	1	1	1	1	1	1	1	1	/	1	/
	TF	/	CF	/	/	/	CF	/	CF	/	/	1	/
	eMMC	1	/	/	/	1	/	/	/	/	1	1	1
	M.2(NVMe)	/	/	1	1	/	/	1	/	1	1	/	1
	M.2(SATA)	/	/	/	/	/	/	/	/	/	/	/	/
CONSOLE		1	1	1	1	1	1	1	1	1	1	1	1 x RJ45/1 x USB Type-C
USB		2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB
4G/5G		/	/	/	1 x 4G/5G	/	/	/	/	/	/	2 x 4G/5G	2 x 4G/5G
Wi-Fi		1 x Wi-Fi	/	1 x Wi-Fi	1 x Wi-Fi	1 x Wi-Fi	/	/	/	/	/	1 x Wi-Fi	1 x Wi-Fi
Other		x86 platform	x86 platform	x86 platform, TPM2.0	x86 platform, TPM2.0	x86 platform	x86 platform	x86 platform, TPM2.0	x86 platform	x86 platform, TPM2.0	China-localized	China-localized	x86 platform, TPM2.0
Power Input		Single/dual/redundant power supplies	Single/redundant power supplies	Redundant power supplies	Single/redundant power supplies	Single/dual/redundant power supplies	Redundant power supplies	Redundant power supplies	Redundant power supplies	Redundant power supplies	Type C	Power adapter	Power adapter
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V. Expansion Modules










Model		GAS-0025-G4CT	GAS-0025-G4FT	GAS-0025-G2WF1T	GAS-0025-G4WFT	GAS-0025-G4C1T	GAS-0025-G8CT	GAS-0025-G4C4FT	GAS-0025-G4F1T
Network	Port	4 x GbE RJ45	4 x GbE SFP	2 x 10GbE SFP+	4 x 10GbE SFP+	4 x GbE RJ45	8 x GbE RJ45	4 x GbE RJ45 + 4 x GbE SFP	4 x GbE SFP
	Controller	NETSWIFT WX1860A4	NETSWIFT WX1860A4	MUCSE N10G-X2	MUCSE N10G-X4	MUCSE N500L-AM4	MUCSE N10L-X8	MUCSE N10L-X8	MUCSE N400L-X4
	Bypass	2 x Gen3 Bypass pairs	N/A	N/A	N/A	N/A	4 x Gen3 Bypass pairs	N/A	N/A
	Port Speed	10/100/1000M	10/100/1000M	10G	10G	10/100/1000M	10/100/1000M	10/100/1000M	10/100/1000M
PCIe Bus		PCIe 2.0 8X	PCIe 2.0 8X	PCIe 3.0 8X	PCIe 3.0 8X	PCIe 2.0 8X	PCIe 3.0 8X	PCIe 3.0 8X	PCIe 3.0 8X
Power Input	Power Type	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power
	Power Consumption	3.6W	3.5W	7.5W	9.5W	3.6W	7W	8W	5.1W
Cooling		Fanless cooling design	Fanless cooling design	Fan cooling design	Fan cooling design	Fanless cooling design	Fanless cooling design	Fanless cooling design	Fanless cooling design
Environmental	Operating Temperature	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃
	Storage Temperature	-40℃ ~ 85℃	-40℃ ~ 85℃	-40℃ ~ 85℃	-40℃ ~ 85℃	-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	5%–95%, non-condensing	5%–95%, non-condensing	5%–95%, non-condensing	5%–95%, non-condensing
Dimensions		171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm









Model		GAS-0025-G8FT	GAS-0025-G2WFT	GAS-0025-1MC	GAS-0025-4CT	GAS-0025-4CTG	GAS-0025-8CT	GAS-0025-4FT
Network	Port	8 x GbE SFP	2 x 10GbE SFP+	1 x GbE RJ45	4 x GbE RJ45	4 x 2.5GbE RJ45	8 x GbE RJ45	4 x GbE SFP
	Controller	MUCSE N10L-X8	NETSWIFT SP1000A	Intel® I210-AT	Intel® I350-AM4	Intel® I226-V	Intel® I350-AM4	Intel® I350-AM4
	Bypass	N/A	N/A	N/A	2 x Gen3 Bypass pairs	2 x Gen3 Bypass pairs	4 x Gen3 Bypass pairs	N/A
	Port Speed	10/100/1000M	10G	10/100/1000M	10/100/1000M	10/100/1000/2500M	10/100/1000M	10/100/1000M
PCIe Bus		PCIe 3.0 8X	PCIe 3.0 8X	PCIe 2.0 8X	PCIe 2.0 8X	PCIe 3.1 8X	PCIe 2.0 8X	PCIe 2.0 8X
Power Input	Power Type	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power
	Power Consumption	7.1W	8W	1.1W	5.6W	6.8W	15W	5.6W
Cooling		Fanless cooling design	Fan cooling design	Fanless cooling design	Fanless cooling design	Fan cooling design	Fanless cooling design	Fanless cooling design
Environmental	Operating Temperature	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃
	Storage Temperature	-40℃ ~ 85℃	-40℃ ~ 85℃	-40℃ ~ 85℃	-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	5%–95%, non-condensing	5%–95%, non-condensing	5%–95%, non-condensing
Dimensions		171.5 x 72.5 mm	171.5 x 72.5 mm	50.9 x 30 mm	171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm

V. Expansion Modules










Model		GAS-0025-4FBP	GAS-0025-4C4FST	GAS-0025-8FT	GAS-0025-2WFF	GAS-0025-4WFBT	GAS-0025-4WFT	GAS-0025-80FT	GAS-0025-100G
Network	Port	4 x GbE SFP	4 x GbE RJ45 + 4 x GbE SFP	8 x GbE SFP	2 x 10GbE SFP+	4 x 10GbE SFP+	4 x 10GbE SFP+	2 x 40GbE QSFP28	2 x 100GbE QSFP28
	Controller	Intel® I350-AM4	Intel® I350-AM4	Intel® I350-AM4	Intel® X710-BM2	Intel® XL710-BM2	Intel® XL710-BM1	Intel® XL710-BM2	Intel® E810-CAM2
	Bypass	2 x Gen3 Bypass pairs	N/A	N/A	N/A	2 x Gen3 Bypass pairs	N/A	N/A	N/A
	Port Speed	10/100/1000M	10/100/1000M	10/100/1000M	10G	10G	10G	40G	100G
PCIe Bus		PCIe 2.0 8X	PCIe 2.0 8X	PCIe 2.0 8X	PCIe 3.0 8X	PCIe 3.0 8X	PCIe 3.0 8X	PCIe 3.0 8X	2 x PCIe3.0 8X
Power Input	Power Type	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power
	Power Consumption	5.6W	11.1W	12.1W	7.5W	7.5W	7.6W	5.7W	39.5W(max)
Cooling		Fanless cooling design	Fan cooling design	Fanless cooling design	Fan cooling design	Fan cooling design	Fan cooling design	Fan cooling design	Fan cooling design
Environmental	Operating Temperature	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃
	Storage Temperature	-40℃ ~ 85℃	-40℃ ~ 85℃	-40℃ ~ 85℃	-40℃ ~ 85℃	-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	5%–95%, non-condensing	5%–95%, non-condensing	5%–95%, non-condensing	5%–95%, non-condensing
Dimensions		171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 72.5 mm	171.5 x 145.8 mm








Model		GAS-0025-100GT	GAS-0025-200GT	GAS-5G-01	GAS-NVME-01	GAS-COM-01	GAS-ME-A
Network	Port	2 x 100GbE QSFP28	1 x 200GbE QSFP5 or 2 x 100GbE QSFP28	1 x M.2 for 4G/5G	2 x M.2 NVMe	8 x RS-232/RS485	1 x miniPCIe
	Controller	Intel® E810-CAM2	Intel® E830-CCAM1	/	/	/	/
	Bypass	N/A	N/A	/	/	/	/
	Port Speed	100G	200G	/	/	/	/
PCIe Bus		PCIe4.0 8X	PCIe5.0 8X	PCIe1.0 1X	PCIe1.0 8X	PCIe1.0 1X	PCIe2.0 1X
Power Input	Power Type	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power	Standard PCIe slot power
	Power Consumption	39.5W(max)	25W（max）	/	/	/	/
Cooling		Fan cooling design	Fan cooling design	Fanless cooling design	Fanless cooling design	Fanless cooling design	Fanless cooling design
Environmental	Operating Temperature	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃	0℃ ~ 40℃
	Storage Temperature	-40℃ ~ 85℃	-40℃ ~ 85℃	-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	5%–95%, non-condensing	5%–95%, non-condensing
Dimensions		171.5 x 72.5 mm	171.5 x 72.5 mm	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 DESCRIPTION

Entry-level Series ····· P18-48

Desktop

1U Rackmount

2U Rackmount

GAP Appliance

Mainstream Series ····· P49-69

Desktop

1U Rackmount

2U Rackmount

GAP Appliance

High-performance Series ····· P70-73

1U Rackmount

2U Rackmount

Fanless Series ····· P74-76

China-localized Products

Global-platform Products

Expansion Modules ····· P11-16

Network Expansion Modules

Function Expansion Modules



NSC-2L03

Desktop Network Appliance, ARM-based
Rockchip RK3568 Processor



- ARM-based Rockchip RK3568 quad-core Cortex-A55 64-bit processor
- 2 x GbE RJ45 ports
- Storage: supports mSATA, eMMC, TF card
- Onboard DDR4 2400MHz memory,1~8GB(optional)
- 4 x USB3.0, 6 x USB2.0
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz （default: 1.8 Ghz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard DDR4 2400MHz, non-ECC
	Capacity	1～8GB（optional）
Network	Port	2 x GbE RJ45 ports
	Controller	2 x RTL8211FS
	Bypass	N/A
Expansion	M.2	1 x M.2 slot for 4G/5G modules
	SIM slot	1 x Micro SIM card slot (built-in)
I/O	Console	1 x RJ45 console port (Cisco-compatible pinout), 5 × onboard COM pin headers
	USB	4 x USB3.0, 6 x USB2.0
	GPIO	2
Storage	HDD	N/A
	mSATA	1 x mSATA SSD
	TF	1 x TF Card Slot (Built-in)
	eMMC	1 x eMMC 5.1
Display	Display	N/A
Power Input	Power Input	Power adapter, AC 100~240, 50~60Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 1 x Custom LED
	Button	1 x Custom button
Power Consumption	Typical Power Consumption	12W
Cooling	Cooling	Air Cool
Mechanical & Environment	Dimensions	Desktop, 270 x 150 x 44mm(W x D x H), supports rack-mount installation
	Operating Temperature	0℃～40℃
	Storage Environment	Storage temperature：-40℃～70℃, storage humidity：5%～95%, non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-2106

Desktop Network Appliance, ARM-based Rockchip RK3568 Processor



- ARM-based Rockchip RK3568 quad-core Cortex-A55 64-bit processor
- Onboard DDR4 2400MHz memory,1~8GB(optional)
- 3 x GbE RJ45 ports
- Supports 4G/5G expansion
- Storage: supports eMMC,M.2,TF card
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz （default: 1.8 Ghz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard DDR4 2400MHz , non-ECC
	Capacity	1 ~ 8GB（optional）
Network	Port	3 x GbE RJ45 ports
	Controller	2 x RTL8211FS, 1 x RTL8111H-CG
Expansion	PCIE	N/A
	M.2	1 x M.2 slot for 4G/5G module
	SIM slot	1 x Micro SIM card slot (built-in)
I/O	Console	1 x RJ45 console (Cisco-compatible pinout), 3 × onboard pin headers
	USB	Upper：1 x USB2.0, Lower：1 x USB2.0 OTG
	Display	1 x HDMI
	GPIO	4
Storage	HDD/SSD	N/A
	eMMC	1 x eMMC 5.1
	M.2	1 x 2280 M. 2 (NVMe)
	TF	1 x TF card slot
Power Input	Power Input	Power adapter, AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x Power LED, 1 x Status LED
	RTC	Supports RTC function
	Button	1 x Custom button, 1 x Flash Button
Power Consumption	Typical Power Consumption	10W
Cooling	Cooling	Air Cool
Mechanical & Environmen	Dimensions	Desktop, 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
	Packaging	condensing Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-2E03

Desktop Network Appliance, ARM-based Rockchip RK3568 Processor



- ARM-based Rockchip RK3568 quad-core Cortex-A55 64-bit processor
- 4 x GbE RJ45 ports or 4 x GbE RJ45 ports + 2 x GbE RJ45/SFP Combo ports
- Storage: supports mSATA, eMMC, TF card
- Onboard DDR4 2400/3200MHz memory,1 ~ 8G (optional)
- Supports dual 4G and Wi-Fi expansion
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz （default: 1.8 Ghz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard DDR4 2400/3200MHz , non-ECC
	Capacity	1 ~ 8GB（optional）
Network	Port	4 x GbE RJ45 ports or 4 x GbE RJ45 ports + 2 x GbE RJ45/SFP Combo ports
	Controller	4 x Intel® I210-AT
	Bypass	1 pair optional (Gen3), LAN3 ~ LAN4
Expansion	mini PCIe	1 x mini PCIe
	4G	2 x mini PCIe slots for 4G modules
	SIM slot	2 x Micro SIM slots
	Wi-Fi	Supports Wi-Fi module expansion
I/O	Console	1 x RJ45 Console (Cisco-compatible pinout), 1 x COM pin header
	USB	Upper：1 x USB2.0, Lower：1 x USB2.0（flash port）
	GPIO	support
Storage	HDD/SSD	1 x mSATA SSD (optional)
	EMMC	1 x eMMC 5.1
	TF	1 x TF card slot
TPM	TPM	Supported
Display	Display	N/A
Power Input	Power Input	Power adapter, AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 4 x LAN LEDs, 2 x 4G LEDs, 1 x Wi-Fi LED, 1 x Custom LED
	Button	1 x Custom button
Power Consumption	Typical Power Consumption	12W
Cooling	Cooling	Air Cool
Mechanical & Environment	Dimensions	Desktop, 230 x 160 x 40 mm (W x D x H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage temperature：-40℃ ~ 70℃, Storage humidity：5% ~ 95%, non-condensing
	Packaging	condensing Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-2K13

Desktop Network Appliance, ARM-based Rockchip RK3568 Processor



- ARM-based Rockchip RK3568 quad-core Cortex-A55 64-bit processor
- 4 x GbE RJ45 ports
- Supports rack-mountable installation
- Onboard LPDDR4 2400MHz memory, 1 ~ 8GB(optional)
- Supports dual 4G/5G and Wi-Fi expansion
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz （default: 1.8 Ghz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard LPDDR4 2400MHz , non-ECC
	Capacity	1 ~ 8GB（optional）
	Memory	Onboard
Network	Port	4 x GbE RJ45 ports
	Controller	2 x RTL8211FS, 2 x RTL8111H-CG
	Bypass	N/A
Expansion	M.2	2 x M.2 slots for 4G/5G modules
	mini PCIe	1 x mini PCIe
	Wi-Fi	Supports Wi-Fi module expansion
	SIM card	2 x Micro SIM card slots
I/O	Console	1 x RJ45 Console (Cisco-compatible pinout), 1 x COM onboard pin header
	USB	Upper：1 x USB2.0, Lower：1 x USB2.0 OTG
Storage	eMMC	1 x eMMC 5.1
	mSATA	1 x mSATA SSD（optional）
	TF	1 x TF card slot (optional)
TPM	TPM	Supported
Power Input	Power Input	Power adapter, AC 100 ~ 240V, 50 ~ 60Hz
Power Consumption	Typical Power Consumption	10W
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 2 x 4G/5G LEDs, 1 x Wi-Fi LED
	Button	1 x Custom button
Cooling	Cooling	Air Cool
Mechanical & Environment	Dimensions	Desktop, 180 x 104 x 34mm (W x D x H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage temperature：-40℃ ~ 70℃, Storage humidity：5% ~ 95%, non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-2153

Desktop Network Appliance, ARM-based
Rockchip RK3568 Processor



- ARM-based Rockchip RK3568 quad-core Cortex-A55 64-bit processor
- 4 x GbE RJ45 ports
- Storage: supports mSATA, eMMC, TF card
- Onboard DDR4 2400MHz memory,1 ~ 8GB (optional)
- Supports 4G/5G and Wi-Fi expansion
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz (default: 1.8 GHz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard DDR4 2400MHz , non-ECC
	Capacity	1 ~ 8GB（optional）
Network	Port	4 x GbE RJ45 ports
	Controller	2 x RTL8211FS, 2 x RTL8111H-CG
	Bypass	1 pair optional (Gen3), LAN2 ~ LAN3
Expansion	M.2	1 x M.2 slot for 4G /5G module
	Wi-Fi	Supports Wi-Fi module expansion
	4G/5G	Supported（ optional ）
	SIM slot	1 x Micro SIM card slot
I/O	Console	1 x RJ45 Console (Cisco-compatible pinout), 3 x onboard pin headers
	USB	Upper：1 x USB2.0, Lower：1 x USB2.0 OTG
	Display	1 x HDMI（optional）
	GPIO	4
Storage	HDD/SSD	1 x mSATA SSD (mutually exclusive with 5G function)
	eMMC	1 x eMMC 5.1
	TF	1 x TF card slot
Power Input	Power Input	Power adapter, AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x Power LED, 1 x Status LED, 1 x SOHO dedicated LED set (includes power, HDD, LAN port LEDs — optional)
	RTC	Supports RTC function
	Button	1 x Custom button
Power Consumption	Typical Power Consumption	10W
Cooling	Cooling	Air Cool
Mechanical & Environment	Dimensions	Desktop，220 x 140 x 36 mm (W x D x H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage temperature：-40℃ ~ 70℃, Storage humidity：5% ~ 95%, non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-2133

Desktop Network Appliance, ARM-based
Rockchip RK3568 Processor



- ARM-based Rockchip RK3568 quad-core Cortex-A55 64-bit processor
- 5 x GbE RJ45 ports
- Storage: supports mSATA, eMMC, TF card
- Onboard DDR4 2400MHz memory,1 ~ 8GB(optional)
- Supports 4G/5G expansion
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz （default: 1.8 Ghz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard DDR4 2400MHz , non-ECC
	Capacity	1 ~ 8GB（optional）
Network	Port	5 x GbE RJ45 ports
	Controller	2 x RTL8211FS, 3 x RTL8111H-CG
	Bypass	2 pairs optional (Gen3), LAN2 ~ LAN3, LAN4 ~ LAN5
Expansion	PCIE	N/A
	M.2	1 x M.2 slot for 4G /5G module
	4G/5G	Supported (optional)
	SIM slot	1 x Micro SIM card slot
I/O	Console	1 x RJ45 Console (Cisco-compatible pinout), 3 x onboard pin headers
	USB	Upper：1 x USB2.0, Lower: 1 x USB2.0 OTG
	Display	1 x HDMI
	GPIO	4
Storage	HDD/SSD	1 x mSATA SSD (mutually exclusive with 5G function)
	eMMC	1 x eMMC 5.1
	TF	1 x TF card slot
Power Input	Power Input	Power adapter, AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x Power LED, 1 x Status LED, 1 x SOHO dedicated LED set (includes Power, HDD, LAN LEDs -(optional)
	RTC	Supports RTC function
	Button	1 x Custom button, 1 x Flash button
Power Consumption	Typical Power Consumption	10W
Cooling	Cooling	Air Cool
Mechanical & Environment	Dimensions	Desktop, 220 x 140 x 36 mm (W x D x H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage temperature: -40℃ ~ 70℃, Storage humidity：5% ~ 95%, non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-2A03

Desktop Network Appliance, ARM-based Rockchip RK3568 Processor

Entry-level Series



- ARM-based Rockchip RK3568 quad-core Cortex-A55 64-bit processor
- 3 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
- Storage: supports mSATA,eMMC,TF card
- Onboard DDR4 2400 memory, 1 ~ 8G(optional)
- Supports 4G/5G and Wi-Fi expansion
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0GHz (default 1.8GHz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard DDR4 2400MHz , non-ECC
Network	Port	3 x GbE RJ45 ports, 2 x GbE RJ45 / SFP Combo ports
	Controller	3 x RTL8111H-CG, 2 x RTL8211FS
	Bypass	1 pair optional (Gen3), LAN3 ~ LAN4
Expansion	M.2	1 x M.2 slot for 4G/5G module
	SIM slot	1 x Micro SIM card slot
	mini PCIe	1 x mini PCIe
	Wi-Fi	Supports Wi-Fi module expansion
I/O	Console	1 x RJ45 Console (Cisco-compatible pinout), 3 x onboard pin headers
	USB	Upper：1 x USB2.0, Lower：1 x USB2.0 OTG, 2 x USB2.0 onboard pin headers
	GPIO	6
Storage	HDD/SSD	1 x mSATA SSD
	EMMC	1 x eMMC 5.1
	TF	1 x TF card slot
Encryption	Encryption	Expandable via mini PCIe encryption card
Display	Display	N/A
Power Input	Power Input	Power adapter, AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 1 x Bypass LED (optional)
	Button	1 x Custom button
Power Consumption	Typical Power Consumption	10W
Cooling	Cooling	Air Cool
Mechanical & Environment	Dimensions	Desktop, 258 x 140 x 40 mm (W x D x H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage temperature: -40℃ ~ 70℃, Storage humidity:5% ~ 95%, non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-2803

Desktop Network Appliance, ARM-based
Rockchip RK3568 Processor



- ARM-based Rockchip RK3568 quad-core Cortex-A55 64-bit processor
- 2 x GbE RJ45/SFP Combo ports, 2 x 2.5GbE RJ45ports, 1 x GbE RJ45 port
- Storage: supports mSATA, eMMC, TF card
- Onboard DDR4 2400MHz memory, 1 ~ 8GB(optional)
- Supports dual 4G/5G
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz (default: 1.8 GHz)
	GPU/NPU	NPU: 1TOPS
RAM	Type	Onboard DDR4 2400 MHz, non-ECC
	Capacity	1 ~ 8GB (optional)
Network	Port	2 x GbE RJ45 / SFP Combo ports, 2 x 2.5GbE RJ45 ports, 1 x GbE RJ45 port
	Controller	2 x RTL8211FS, 2 x RTL8125B, 1 x RTL8111H-CG
	Bypass	1 pair optional (Gen3), LAN3 ~ LAN4
Expansion	M.2	2 x M.2 slots for 4G/5G modules
	SIM Slot	2 x Micro SIM card slots (built-in)
	4G/5G	Optional
I/O	Console	1 x RJ45 console port (Cisco-compatible pinout), 1 x onboard pin header
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0
	GPIO	Supported
Storage	mSATA	1 x mSATA SSD
	eMMC	1 x eMMC 5.1
	TF	1 x TF card slot
Display	Display	N/A
Power Input	Power Input	Power adapter, AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x Power LED, 1 x Status LED
	Button	1 x Custom button
Power Consumption	Typical Power Consumption	12W
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	Desktop, 264 x 139 x 36 mm (W x D x H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage temperature: -40℃~70℃, Storage humidity: 5~95%, non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-2903

Desktop Network Appliance, ARM-based
Rockchip RK3568 Processor



- ARM-based Rockchip RK3568 quad-core Cortex-A55 64-bit processor
- 5 x GbE RJ45 p orts, 1 x GbE RJ45/SFP Combo port
- Storage: supports mSATA,eMMC,TF card
- Onboard DDR4 2400MHz memory,1~8GB(optional)
- Supports 4G/5G expansion
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0GHz, (default 1.8GHz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard DDR4 2400MHz , non-ECC
	Capacity	1 ~ 8GB（optional）
Network	Port	5 x GbE RJ45 ports, 1 x GbE RJ45/SFP Combo ports
	Controller	4 x RTL8111H-CG, 2 x RTL8211FS
	Bypass	2 pairs optional (Gen3), LAN2 ~ LAN3, LAN4 ~ LAN5
Expansion	M.2	1 x M.2 slot for 4G/5G module（ mutually exclusive with mSATA ）
	SIM slot	1 x Micro SIM card slot
	mini PCIe	1 x mini PCIe
	Wi-Fi	Supports Wi-Fi module expansion
I/O	Console	1 x RJ45 Console(Cisco-compatible pinout) , 2 x onboard pin headers
	USB	Upper：1 x USB2.0, Lower：1 x USB2.0
	GPIO	4
Storage	HDD/SSD	1 x mSATA SSD（mutually exclusive with 5G function）
	eMMC	1 x eMMC 5.1
	TF	1 x TF card slot
Encryption	Encryption	Expandable via mini PCIe encryption card
Display	Display	1 x HDMI
Power Input	Power Input	Power adapter, AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x HDD LED, 1 x power LED, 2 x Bypass LEDs (optional)
Power Consumption	Typical Power Consumption	10W
Cooling	Cooling	Air Cool
Mechanical & Environment	Dimensions	Desktop, 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
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-25A3

Desktop Network Appliance, ARM-based
Rockchip RK3568 Processor



- ARM-based Rockchip RK3568 quad-core Cortex-A55 64-bit processor
- 5 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
- Storage: support mSATA,eMMC,TF card
- Onboard DDR4 2400 memory,1 ~ 8G(optional)
- Supports 4G/5G and Wi-Fi expansion
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0GHz, (default 1.8GHz)
	GPU/NPU	NPU:1TOPS
RAM	Type	Onboard DDR4 2400MHz, non-ECC
	Capacity	1 ~ 8GB（optional）
Network	Port	5 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
	Controller	5 x RTL8111H-CG, 2 x RTL8211FS
	Bypass	2 pairs optional (Gen3), LAN2 ~ LAN3, LAN4 ~ LAN5
Expansion	M.2	1 x M.2 slot for 4G/5G module（mutually exclusive with SATA）
	SIM slot	1 x Micro SIM card slot
	Wi-Fi	Supports Wi-Fi module expansion(optional)
I/O	Console	1 x RJ45 Console (Cisco-compatible pinout), 2 x onboard pin headers
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0
Storage	mSATA	1 x mSATA SSD（mutually exclusive with 5G function）
	eMMC	1 x eMMC 5.1
	TF	1 x TF card slot
Encryption	Encryption	Expandable via mini PCIe encryption card
Display	Display	1 x HDMI（optional）
Power Input	Power Input	Power adapter, AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 1 x Bypass LED (optional)
	Button	1 x Custom button, 1 x Flash button
Power Consumption	Typical Power Consumption	12W
Cooling	Cooling	Air Cool
Mechanical & Environment	Dimensions	Desktop, 300 x 166 x 44 mm (W x D x H), supports rackmount installation
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage temperature：-40℃ ~ 70℃, Storage humidity：5% ~ 95%, non-condensing
	Packaging	condensing Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-2TA3

Desktop Network Appliance, ARM-based
Rockchip RK3568 Processor

Entry-level Series



- ARM-based Rockchip RK3568 quad-core Cortex-A55 64-bit processor
- 5 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
- Storage: supports SATA/mSATA,eMMC,TF card
- OnboardDDR4 2400 memory,1 ~ 8G(optional)
- Supports 4G/5G expansion
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz （default: 1.8 Ghz)
	GPU/NPU	NPU: 1TOPS
RAM	Type	Onboard DDR4 2400MHz
	Capacity	1 ~ 8GB（optional）
Network	Port	5 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
	Controller	1 x RTL8111H-CG, 2 x RGMII + RTL8211FS, 4 x Switch YT9215S Copper (RJ45) ports
	Bypass	2 pairs optional (Gen3), LAN2 ~ LAN3, LAN4 ~ LAN5
Expansion	M.2	1 x M.2 slot for 4G/5G module
	SIM slot	1 x Micro SIM card slot
	Wi-Fi	N/A
I/O	Console	1 x RJ45 Console
	USB	Upper：1 x USB2.0, Lower：1 x USB3.0
	GPIO	Supported
Storage	SATA	1 x SATA (mutually exclusive with mSATA)
	mSATA	1 x mSATA SSD（mutually exclusive with SATA function）
	eMMC	1 x eMMC 5.1
	TF	1 x TF card slot
Display	Display	1 x HDMI (optional)
Power Input	Power Input	Power adapter, AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 2 x Bypass LEDs, 2 x Custom LEDs (optional)
	Button	1 x Custom button, 1 x Flash button
Power Consumption	Typical Power Consumption	12W
Cooling	Cooling	Air Cool
Mechanical & Environment	Dimensions	Desktop, 300 x 166 x 44 mm (W x D x H), supports rackmount installation
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage temperature：-40℃ ~ 70℃, Storage humidity：5% ~ 95%, non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-2C03

Desktop Network Appliance, ARM-based Rockchip RK3568 Processor



- ARM-based Rockchip RK3568 quad-core Cortex-A55 64-bit processor
- 8 x GbE RJ45 ports ,2 x GbE RJ45/SFP Combo ports
- Storage: supports mSATA,eMMC,TF card
- Onboard DDR4 2400 memory,1 ~ 8G(optional)
- Dual 4G/5G and Wi-Fi expansion
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0GHz, (default 1.8GHz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard DDR4 2400MHz , non-ECC
	Capacity	1 ~ 8GB (optional)
Network	Port	8 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
	Controller	8 x RTL8111H-CG, 2 x RTL8211FS
	Bypass	4 pairs optional (Gen3), LAN 1 ~ LAN 2, LAN 3 ~ LAN 4, LAN 5 ~ LAN 6, LAN 7 ~ LAN 8
Expansion	M.2	2 x M.2 slots for 4G/5G（mutually exclusive with SATA）
	SIM slot	2 x Micro SIM slots
	PCIe	1 x PCIe (optional, mutually exclusive with mini PCIe）
	mini PCIe	1 x mini PCIe(mutually exclusive with PCIe）
	Wi-Fi	Supported (optional)
I/O	Console	1 x RJ45 Console (Cisco-compatible pinout) , 3 x onboard pin headers
	USB	Upper：1 x USB2.0, Lower：1 x USB2.0 OTG, 1 x onboard USB2.0 pin header
	GPIO	2
Storage	HDD/SSD	1 x mSATA SSD
	EMMC	1 x eMMC 5.1
	TF	1 x TF slot
Encryption	Encryption	Expandable via mini PCIe encryption card
Display	Display	N/A
Power Input	Power Input	Power adapter, AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 4 x Bypass LEDs, 1 x Customizable LED (optional)
	Button	1 x Custom button
Power Consumption	Typical Power Consumption	12W
Cooling	Cooling	Air Cool
Mechanical & Environment	Dimensions	Desktop, 280 x 180 x 44 mm(W x D x H), supports rackmount installation
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage temperature：-40℃ ~ 70℃, Storage humidity：5% ~ 95%， non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-6503

Desktop Network Appliance, China-developed ARM-based Phytium E2000Q Processor

<<< Entry-level Series



- China-developed Phytium E2000Q quad-core processor
- 8 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
- Storage: supports eMMC, TF card
- Onboard DDR4 2400 MHz memory, up to 16GB
- Supports 4G/5G
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specification
Platform	CPU	Phytium E2000Q quad-core processor (listed in China's secure and reliable catalog)
	Base Frequency	Up to 2.0GHz
	Chipset	SoC
RAM	Type	Onboard DDR4 2400MHz, ECC/non-ECC
	Capacity	Up to 16GB
Network	Port	8 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
	Controller	6 x RTL8111H-CG,4 x RTL8211FS
	Bypass	1 pair optional (Gen3), LAN3 ~ LAN4
Storage	eMMC	1 x eMMC 5.0
	TF	1 x TF card slot
	HDD/SDD	N/A
	mSATA	N/A
I/O	Console	1 x RJ45 console port, 4 x onboard COM pin headers
	USB	Upper: 1 x USB 2.0, lower: 1 x USB 2.0, 1 x onboard USB pin header
	GPIO	8
Display	Display	1 x onboard VGA pin header
Expansion	M.2	1 x M.2 slot for 4G/5G module
	SIM	1 x Micro SIM card slot
	Encryption	Expandable via mini PCIe encryption card
Power Input	Power Input	Power adapter (optional)
Control & Signal	LED	1 x Bypass LED, 1 x Power LED, 1 x HDD LED, 1 x 4G/5G LED
	Button	1 x Custom button
Power Consumption	Typical Power Consumption	19.78W
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	Desktop, 230 x 176 x 44 mm (W x D x H), supports rack-mount installation
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage temperature: -40℃~70℃, Storage humidity: 5~95%, non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports China-localized OS, mainstream Linux distributions, Windows, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-4AA3

Fanless Desktop Network Appliance, ARM-based MediaTek MT7981B Processor

Entry-level Series



- MediaTek MT7981B dual-core Cortex-A53 processor
- 4 x GbE RJ45 ports
- Supports 4G/5G and Wi-Fi 6
- Onboard DDR4 2133MHz memory, up to 1GB
- Storage: supports eMMC
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	MediaTek MT7981B dual-core Cortex-A53 processor
	Base Frequency	1.3GHz
	Chipset	SoC
RAM	Type	Onboard DDR4 2133MHz, non-ECC
	Capacity	Up to 1GB
Network	Port	4 x GbE RJ45 ports
	Controller	Integrated switch interface
	Bypass	2 pairs optional (Gen3), LAN1 ~ LAN2, LAN3 ~ LAN4
Expansion	NIC expansion	N/A
	M.2	1 x M.2 slot for 4G/5G module
	Wi-Fi	Supports Wi-Fi 6
Storage	eMMC	1 x eMMC4.5
	mSATA	N/A
	M.2	N/A
I/O	Console	1 x RJ45 Console
	USB	1 x USB2.0
	GPIO	N/A
Display	Display	N/A
Power Input	Power Input	External power adapter, AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 1 x Custom LED, 2 x Bypass LEDs, 1 x 4G/45 LED, 1 x Wi-Fi LED
	Button	1 x Custom button
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	Fanless desktop, 140 x 95 x 36mm (W x D x H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage temperature: -40˚C～70˚C, Storage humidity: 5～95%, non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-54A3

Desktop Network Appliance, China-developed
Hygon C86-1500 Processor



- Hygon C86-1500 series CPU (listed in China's secure and reliable catalog)
- 6 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
- Storage: supports eMMC, NVMe
- DDR5 4800 MHz SO-DIMM
- Supports 4G/5G expansion
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specification
Platform	CPU	Hygon C86-1500 series CPU (listed in China's secure and reliable catalog)
	Chipset	SoC
BIOS	BIOS	Sugon BIOS
RAM	Type	DDR5 4800 MHz ECC/non-ECC
	Slot	1 x SO-DIMM DDR5
Network	Port	6 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
	Controller	6 x MUCSE N210L, 2 x Motorcomm YT8531SC
	Bypass	3 pairs optional(Gen3), LAN1 ~ LAN2, LAN3 ~ LAN4, LAN5 ~ LAN6
Expansion	NIC Expansion	N/A
	mini PCIe	N/A
	M.2	1 x M.2 slot for 4G/5G module
	Console	1 x RJ45 Console (Cisco-compatible pinout)
I/O	USB	2 x USB2.0, 2 x onboard USB2.0 pin headers
	Display	1 x VGA(optional)
	GPIO	Supported
Storage	eMMC	1 x eMMC5.0
	NVMe	1 x M.2 NVMe (optional)
TPM	TPM	Supports TPM2.0
Power Input	Power Input	Power adapter, AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1x HDD LED, 1 x Power LED, 1 x Custom, 3 x Bypass LEDs, 1 x 4G/5G LED
	Switch	N/A
	Button	1 x Custom button
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	Desktop, 310 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
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports China-localized OS, mainstream Linux distributions, Windows, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-1303

Desktop Network Appliance, ARM-based
CORTINA CA8299 Processor



- CORTINA CA8299 quad-core Cortex-A73 processor
- 6 x 2.5 GbE RJ45 ports, 2 x 10G SFP+ ports
- Storage: supports eMMC, M.2
- Onboard LPDDR5 up to 5500 MHz memory, max. 8 GB (default: 4 GB)
- 1 x OLT anyPON port
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	CORTINA CA8299 (quad-core, Cortex-A73)
	Base Frequency	2.0GHz
	Bootloader	U-Boot
RAM	Type	Onboard LPDDR5, up to 5500MHz
	Capacity	Up to 8GB (default: 4GB)
Network	Port	6 x 2.5 GbE RJ45 ports, 2 x 10G SFP+ ports, 1 x OLT
	Controller	2 x CPU MAC + RTL8221, 4 x CPU MAC + RTL8224, 2 x CA8299 CPU-direct Ethernet, 1 x VN1808 CPU-direct Ethernet
	Bypass	1 pair optional (Gen3), LAN5 ~ LAN6
Expansion	mini PCIe	N/A
	4G/5G	N/A
	SIM	N/A
I/O	Console	1 x RJ45 console port (Cisco-compatible pinout)
	USB	Upper: 1 x USB3.0, Lower: 1 x USB3.0
	GPIO	Supported
Storage	eMMC	1 x eMMC 5.1
	M.2	1 x 2280 M.2 (NVMe)
Power Input	Power Input	Power adapter, AC 100 ~ 240V, 50 ~ 60Hz
TPM	TPM	N/A
Control & Signal	LED	1 x Power LED, 1 x HDD LED, 1 x Bypass LED, 2 x OLT LEDs
	Button	1 x Custom button
Power Consumption	Typical Power Consumption	16.22W
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	Desktop, 270 x 170 x 44 mm (W x D x H), supports rack-mount installation
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage temperature: -40˚C～70˚C, Storage humidity: 5～95%, non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-1403

Desktop Network Appliance, ARM-based
CORTINA CA8299 Processor



- CORTINA CA8299 quad-core Cortex-A73 processor
- 6 x 2.5GbE RJ45 ports (4 PoE+), 2 x 10G SFP+ ports
- Storage: supports M.2, eMMC
- Onboard LPDDR5 up to 5500 MHz memory, max. 8 GB (default: 4 GB)
- Supports 4G/5G and Wi-Fi
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specifications
Platform	CPU	CORTINA CA8299 (quad-core)
	Frequency	2.0GHz
	Bootloader	U-Boot
RAM	Type	Onboard LPDDR5, up to 5500MHz, non-ECC
	Capacity	Up to 8GB (default: 4 GB)
Network	Port	6 x 2.5 GbE RJ45 ports (4 x PoE+), 2 x 10GbE SFP+ ports
	Controller	2 x CPU MAC + RTL8221,4 x CPU MAC + RTL8224, 2 x CA8299 CPU-direct Ethernet
	Bypass	1 pair optional (Gen3), LAN5 ~ LAN6
Expansion	mini PCIe	1 x mini PCIe
	4G/5G	Supported
	SIM	2 x Micro SIM slots
	Wi-Fi	Supported
	M.2	2 x M.2 slots for 4G/5G modules
PoE	Standard	Supports IEEE 802.3af/at standards
	Single PoE port power	≤30W
	Total PoE power	≤120W
I/O	Console	1 x RJ45 console port (Cisco-compatible pinout)
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0
	GPIO	Supported
Storage	eMMC	1 x eMMC 5.1
	M.2	1 x 2280 M.2 (NVMe)
Power Input	Power Input	Power adapter, AC 100 ~ 240V, 50 ~ 60Hz
TPM	TPM	N/A
Control & Signal	LED	1 x Power LED, 1 x HDD LED, 1 x Bypass LED, 2 x 4G/5G LEDs, 1 x Wi-Fi LED
	Button	1 x Custom button
Power Consumption	Typical Power Consumption	16.22W
Cooling	Cooling	Air Cool
Mechanical& Environmental	Dimensions	Desktop, 270 x 170 x 44 mm (W × D × H), supports rack-mount installation
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage temperature: -40°C ~ 70°C, Storage humidity: 5% ~ 95%, non-condensing
	Packaging	Industrial packaging (customizable)
System& Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC and other standards

NSC-99A3

Desktop Network Appliance, Intel® Alder Lake-N / Amston Lake Series Processor

Entry-level Series



- Onboard Intel® N100 / Core™ i3-N305 / Atom® x7000C series processor
- 4 x 2.5 GbE RJ45 ports/6 x 2.5 GbE RJ45 ports
- Storage: supports mSATA, eMMC
- DDR4 memory up to 3200MHz, max.16GB
- Supports rack-mount installation
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specification	
Platform	CPU	Intel® N100 / Core™ i3-N305 / Atom® x7000C series processor	
	Base Frequency	Depends on the specific CPU	
	Chipset	SoC	
RAM	Type	DDR4 up to 3200MHz, Non-ECC	
	Slot	DDR4 SO-DIMM	
	Capacity	Up to 16GB	
Network	Port	4 x 2.5 GbE RJ45 ports	6 x 2.5 GbE RJ45 ports
	Controller	4 x Intel® I226-V	6 x Intel® I226-V
	Bypass	1 pair optional (Gen3), LAN3 ~ LAN4	2 pairs optional (Gen3), LAN3 ~ LAN4, LAN5 ~ LAN6
Expansion	mini PCIe	N/A	
	M.2	N/A	
	4G/5G/Wi-Fi	N/A	
I/O	Console	1 x RJ45 Console (Cisco-compatible pinout)	
	USB	2 x USB	
	GPIO	8	
Storage	HDD/SSD	N/A	
	eMMC	1 x eMMC 5.1	
	mSATA	1 x mSATA SSD	
Display	Display	1 x VGA	
Power Input	Power Input	Power adapter, AC 100 ~ 240V, 50 ~ 60Hz	
TPM	TPM	N/A	
Control & Signal	LED	1 x Power LED, 1 x HDD LED, 2 x Bypass LEDs	
	Button	1 x Custom button	
Power Consumption	Typical Power Consumption	28.5W ~ 31.8W	
Cooling	Cooling	Air Cool	
Mechanical & Environmental	Dimensions	Desktop, 230 x 180 x 44 mm (W x D x H), supports rack-mount installation	
	Operating Temperature	0℃ ~ 40℃	
	Storage Environment	Storage temperature: -40℃～70℃, Storage humidity: 5～95%, non-condensing	
	Packaging	Industrial packaging (customizable)	
System & Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS	
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more	
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards	

NSC-2L01

1U Rackmount Network Appliance, ARM-based Rockchip RK3568 Processor

Entry-level Series



- ARM-based Rockchip RK3568 quad-core Cortex-A55 64-bit processor
- 2 x GbE RJ45 ports
- Storage: supports HDD/mSATA,eMMC,TF card
- Onboard DDR4 2400MHz memory,1 ~ 8GB(optional)
- 4 x USB3.0, 6 x USB2.0
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz (default: 1.8 GHz)
	GPU/NPU	NPU: 1TOPS
RAM	Type	Onboard DDR4 2400MHz , non-ECC
	Capacity	1 ~ 8GB（optional）
Network	Port	2 x GbE RJ45 ports
	Controller	2 x RTL8211FS
	Bypass	N/A
Expansion	M.2	1 x M.2 slot for 4G/5G module
	SIM	1 x Micro SIM slot
I/O	Console	1 x RJ45 Console(Cisco-compatible pinout), 5 x onboard COM pin headers
	USB	4 x USB3.0, 6 x USB2.0
	GPIO	2
Storage	HDD/SSD	1 x 2.5”/3.5”SATA HDD （mutually exclusive with mSATA）
	mSATA	1 x mSATA SSD（mutually exclusive with SATA HDD）
	TF	1 x TF card slot
	eMMC	1 x eMMC 5.1
Display	Display	N/A
Power Input	Power Input	Single/dual/redundant power supply (optional), AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 1 x Custom LED
	Button	1 x Custom button
Mechanical & Environment	Dimensions	1U rackmount, 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
	Packaging	condensing Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-2111

1U Rackmount Network Appliance, ARM-based Rockchip RK3568 Processor

Entry-level Series



- ARM-based Rockchip RK3568 quad-core 64 bit Cortex-A55 processor
- 5 x GbE RJ45 ports
- Storage:supports HDD/SSD, eMMC, TF card
- Onboard DDR4 2400MHz memory, 1 ~ 8GB (optional)
- Single or dual power supply, optional
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz (default: 1.8 GHz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard DDR4 2400 MHz, Non ECC
	Capacity	1–8GB (optional)
Network	Port	5 x GbE RJ45 ports
	Controller	2 x RTL8211FS, 3 x RTL8111H-CG
	Bypass	2 pairs optional (Gen3), LAN2~LAN3, LAN4~LAN5
Expansion	mini PCIe	1 x mini PCIe (optional)
	4G/5G	Optional
	Wi-Fi	Optional
I/O	Console	1 x RJ45 console port (Cisco-compatible pinout), 2 x onboard pin headers
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0
Storage	HDD/SSD	1 x 2.5”/3.5”SATA HDD or 1 x 2.5”SATA SSD, 1 x mSATA SSD，optional
	eMMC	1 x eMMC 5.1
	TF	1 x TF card slot
Encryption	Encryption	Expandable via mini PCIe encryption card
Display	Display	N/A
Power Input	Power Input	Built-in single or dual power supplies (optional), AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x HDD LED, x Power LED, 2 x Bypass LEDs (optional)
	Button	1 x Reset button, 1 x Flash button
Power Consumption	Typical Power Consumption	10W
Cooling	Cooling	Air Cool
Mechanic & Environment	Dimensions	1U rackmount, 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
	Front Panel	Front panel PVC sticker (customized)
	Packages	Industrial packaging (customized)
Operation System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-2A11

1U Rackmount Network Appliance, ARM-based Rockchip RK3568 Processor



- ARM-based Rockchip RK3568 quad-core 64 bit Cortex-A55 processor
- 3 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
- Storage:supports HDD/SSD, eMMC, TF card
- Onboard DDR4 memory, 1 ~ 8GB optional
- Supports 4G/5G and Wi-Fi expansion
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz (default: 1.8 GHz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard DDR4 2400 MHz, non-ECC
	Capacity	1–8GB (optional)
Network	Port	3 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
	Controller	3 x RTL8111H-CG, 2 x RTL8211FS
	Bypass	1 pair optional (Gen3): LAN3~LAN4
Expansion	M.2	1 x M.2 slot for 4G/5G module
	SIM Slot	1 x Micro SIM card slot (built-in)
	mini PCIe	1x mini PCIe
	Wi-Fi	Support Wi-Fi module expansion
I/O	Console	1 x RJ45 console port (Cisco-compatible pinout), 3 x onboard pin headers
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0 OTG, 2 x USB2.0 onboard pins
	GPIO	6
Storage	HDD/SSD	1 x 2.5”/3.5”SATA HDD or 1 x 2.5”SATA SSD, 1 x mSATA SSD, optional
	eMMC	1 x eMMC 5.1
	TF	1 x TF card slot
Encryption	Encryption	Expandable via mini PCIe encryption card
Display	Display	N/A
Power Input	Power Input	Built-in single power supply (optional), AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 1 x Bypass LED (optional)
	Button	1 x Custom button, 1 x Flash button
Power Consumption	Typical Power Consumption	10W
Cooling	Cooling	Air Cool
Mechanic & Environment	Dimensions	1U rackmount, 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
	Packages	Industrial packaging (customized)
Operation System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-2821

1U Rackmount Network Appliance, ARM-based Rockchip RK3568 Processor

Entry-level Series



- ARM-based Rockchip RK3568 quad-core 64 bit Cortex-A55 processor
- 2 x GbE RJ45/SFP Combo ports, 2 x 2.5GbE RJ45 ports, 1 x GbE RJ45 port
- Storage: supports HDD, mSATA, eMMC, TF card
- Onboard DDR4 memory, 1 ~ 8GB optional
- Supports dual 4G/5G expansion
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz (default: 1.8 GHz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard DDR4 2400 MHz, Non ECC
	Capacity	1–8GB (optional)
Network	Port	2 x GbE RJ45/SFP Combo ports, 2 x 2.5GbE RJ45 ports, 1 x GbE RJ45 port
	Controller	2 x RTL8211FS, 2 x RTL8125B, 1 x RTL8111H-CG
	Bypass	1 pair optional (Gen3), LAN3~LAN4
Expansion	M.2	2 x M.2 for 4G/5G modules (optional)
	SIM Slot	2 x Micro SIM card slots (built-in)
	4G/5G	Optional
I/O	Console	1 x RJ45 console port (Cisco-compatible pinout), 1 x onboard pin header
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0
	GPIO	Supported
Storage	HDD	1 x 2.5”/3.5”SATA HDD (optional)
	mSATA	1 x mSATA SSD (optional)
	eMMC	1 x eMMC 5.1
	TF	1 x TF card slot
Display	Display	N/A
Power Input	Power Input	Built-in single or dual power supplies (optional), AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x Custom LED, 1 x Power LED, 1 x Running LED, 1 x Bypass LED, 2 x 4G/5G LEDs, 2 x Combo LEDs
	Button	1 x Custom button
Power Consumption	Typical Power Consumption	12W
Cooling	Cooling	Air Cool
Mechanic & Environment	Dimensions	1U rackmount, 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
	Packages	Industrial packaging (customized)
Operation System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-2E01

1U Rackmount Network Appliance, ARM-based Rockchip RK3568 Processor

Entry-level Series



- ARM-based Rockchip RK3568 quad-core 64 bit Cortex-A55 processor
- 4 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
- Storage: supports HDD/SSD, eMMC, TF card
- Onboard DDR4 memory, 1 ~ 8GB optional
- Supports dual 4G, Wi-Fi expansion
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz (default: 1.8 GHz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard DDR4 2400 MHz, non-ECC
Network	Port	4 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
	Controller	4 x Intel® I210AT, 2 x RTL8211FS
	Bypass	2 pairs optional (Gen3), LAN3~LAN4, LAN5~LAN6
Expansion	mini PCIe	1 x mini PCIe
	4G	2 x mini PCIe slot for 4G modules
	SIM Slot	2 x Micro SIM card slots (built-in)
	Wi-Fi	Support Wi-Fi module expansion
I/O	Console	1 x RJ45 console port (Cisco-compatible pinout), 2 x onboard pin headers
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0 OTG, 2 x onboard USB2.0 pin headers
	GPIO	Supported
Storage	HDD/SSD	1 x 2.5”/3.5”SATA HDD or 1 x 2.5”SATA SSD，1 x mSATA SSD，optional
	eMMC	1 x eMMC 5.1
	TF	1 x TF card slot
Encryption	Encryption	Expandable via mini PCIe encryption card
Display	Display	N/A
Power Input	Power Input	Single power supply as standard, dual/redundant power supplies optional, AC 100–240 V, 50–60 Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 2 x Bypass LEDs, 2 x Custom LEDs (optional)
	Button	1 x Custom button
Power Consumption	Typical Power Consumption	12W
Cooling	Cooling	Air Cool
Mechanic & Environment	Dimensions	1U rackmount, 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
	Packages	Industrial packaging (customized)
Operation System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-2901

1U Rackmount Network Appliance, ARM-based Rockchip RK3568 Processor

Entry-level Series



- ARM-based Rockchip RK3568 quad-core 64 bit Cortex-A55 processor
- 5 x GbE RJ45 ports, 1 x GbE RJ45/SFP Combo port
- Storage: supports HDD/SSD, eMMC, TF card
- Onboard DDR4 memory, 1 ~ 8GB optional
- Supports 4G/5G and Wi-Fi expansion
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz (default: 1.8 GHz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard DDR4 2400MHz, non-ECC
	Capacity	1–8GB (optional)
Network	Port	5 x GbE RJ45 ports, 1 x GbE RJ45/SFP Combo port
	Controller	4 x RTL8111H-CG, 2 x RTL8211FS
	Bypass	2 pairs optional (Gen3),LAN2~LAN3, LAN4~LAN5
Expansion	M.2	1 x M.2 slot for 4G/5G module (mutually exclusive with SATA/mSATA)
	SIM Slot	1 x Micro SIM card slot (built-in)
	PCIe	1 x mini PCIe/PCIe (one of the alternatives)
	Wi-Fi	Supports Wi-Fi module expansion
I/O	Console	1 x RJ45 console port (Cisco-compatible pinout), 3 x onboard pin headers
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0, 2 x onboard USB2.0 pin headers
Storage	HDD/SSD	1 x 2.5"/3.5" SATA HDD or 1 x 2.5" SATA SSD, 1 x mSATA SSD, optional (mutually exclusive with 5G function)
	eMMC	1 x eMMC 5.1
	TF	1 x TF card slot
Encryption	Encryption	Expandable via mini PCIe encryption card
Display	Display	1 x HDMI
Power Input	Power Input	Single power supply as standard, dual/redundant power supplies optional, AC 100–240 V, 50–60 Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 2 x Bypass LEDs (optional)
Power Consumption	Typical Power Consumption	10W
Cooling	Cooling	Air Cool
Mechanic & Environment	Dimensions	1U rackmount, 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
	Packages	Industrial packaging (customized)
Operation System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-1107

1U Rackmount Network Appliance, ARM-based Rockchip RK3568 Processor

Entry-level Series



- ARM-based Rockchip RK3568 quad-core 64 bit Cortex-A55 processor
- 5 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
- Storage:supports HDD/SSD, eMMC, TF card
- Onboard DDR4 memory, 1 ~ 8GB optional
- Supports 4G/5G and Wi-Fi expansion
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz (default: 1.8 GHz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard DDR4 2400MHz
Network	Port	5 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
	Controller	5 x RTL8111H-CG, 2 x RTL8211FS
	Bypass	2 pairs optional (Gen3), LAN2~LAN3, LAN4~LAN5
Expansion	M.2	1 x M.2 slot for 4G/5G module (mutually exclusive with SATA)
	SIM Slot	1 x Micro SIM card slot (built-in)
	Wi-Fi	Support Wi-Fi module expansion
I/O	Console	1 x RJ45 console port (Cisco-compatible pinout), 2 x onboard pin headers
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0
Storage	HDD/SSD	1 x 2.5”/3.5” SATA HDD or 1 x 2.5” SATA SSD, 1 x mSATA SSD (optional, mutually exclusive with 5G function)
	eMMC	1 x eMMC 5.1
	TF	1 x TF card slot
Encryption	Encryption	Expandable via mini PCIe encryption card
Display	Display	1 x HDMI
Power Input	Power Input	Single power supply as standard, dual power supplies optional, AC 100–240 V, 50–60 Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 1 x Bypass LED (optional)
	Button	1 x Reset button, 1 x Flash button
Power Consumption	Typical Power Consumption	12W
Cooling	Cooling	Air Cool
Mechanic & Environment	Dimensions	1U rackmount, 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
	Packages	Industrial packaging (customized)
Operation System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-2H01

1U Rackmount Network Appliance, ARM-based Rockchip RK3568 Processor

Entry-level Series



- ARM-based Rockchip RK3568 quad-core 64 bit Cortex-A55 processor
- 6 x GbE RJ45 ports, 2 x GbE SFP ports or 8 x GbE RJ45 ports
- Storage:supports HDD, mSATA, eMMC, TF card
- Onboard DDR4 memory, 1 ~ 8GB optional
- Expandable encryption capability via mini PCIe
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz (default: 1.8 GHz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard DDR4 2400 MHz, non-ECC
	Capacity	1–8GB (optional)
Network	Port	6 x GbE RJ45 ports, 2 x GbE SFP ports or 8 x GbE RJ45 ports
	Controller	6 x RTL8111H-CG, 2 x RTL8211FS
	Bypass	2 pairs optional (Gen3), LAN3~LAN4, LAN5~LAN6
Expansion	PCIe	Built-in side-mounted PCIe 4X expansion slot (x1 signal)
	4G/5G	N/A
	Wi-Fi	N/A
I/O	Console	1 x RJ45 console port (Cisco-compatible pinout), 2 x onboard pin headers
	USB	Upper: 1 x USB2.0, Lower: 1 x USB3.0 OTG
	GPIO	4
Storage	HDD	1 x 2.5”/3.5”SATA HDD
	mSATA	1 x mSATA SSD
	eMMC	1 x eMMC 5.1
	TF	1 x TF card slot
Encryption	Encryption	Expandable via mini PCIe encryption card
Display	Display	N/A
Power Input	Power Input	Single power supply as standard, dual power supplies optional, AC 100–240 V, 50–60 Hz
Control & Signal	Button	1 x Custom button
	LED	1 x HDD LED, 1 x Power LED, 2 x Bypass LEDs, 2 x Custom LEDs (optional)
Power Consumption	Typical Power Consumption	12W
Cooling	Cooling	Air Cool
Mechanic & Environment	Dimensions	1U rackmount, 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
	Packages	Industrial packaging (customized)
Operation System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-2C01

1U Rackmount Network Appliance, ARM-based Rockchip RK3568 Processor

<<< Entry-level Series



- ARM-based Rockchip RK3568 quad-core 64 bit Cortex-A55 processor
- Onboard DDR4 memory, 1 ~ 8GB optional
- 8 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
- Supports dual 4G/5G and Wi-Fi expansion
- Storage:supports HDD/SSD, eMMC, TF card
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz (default: 1.8 GHz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard DDR4 2400 MHz, non-ECC
	Capacity	1–8GB (optional)
Network	Port	8 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
	Controller	8 x RTL8111H-CG, 2 x RTL8211FS
	Bypass	4 pairs optional (Gen3), LAN1~LAN2, LAN3~LAN4, LAN5~LAN6, LAN7~LAN8
Expansion	M.2	2 x M.2 slots for 4G/5G modules (mutually exclusive with SATA)
	SIM Slot	2 x Micro SIM card slots (built-in)
	PCIe	PCIe 1X side expansion slot (x1 signal)
	mini PCIe	1 x mini PCIe (mutually exclusive with PCIe)
	Wi-Fi	Supports Wi-Fi module expansion
I/O	Console	1 x RJ45 Console port (Cisco-compatible pinout), 3 x onboard pin headers
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0 OTG, 1 x USB2.0 onboard pin
	GPIO	2
Storage	HDD/SSD	1 x 2.5”/3.5”SATA HDD or 1 x 2.5”SATA SSD, 1 x mSATA SSD, optional
	eMMC	1 x eMMC 5.1
	TF	1 x TF card slot
Display	Display	N/A
Power Input	Power Input	Single power supply as standard, dual/redundant power supplies optional, AC 100–240 V, 50–60 Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 4 x Bypass LEDs, 1 x Custom LED (optional)
	Button	1 x Custom button
Power Consumption	Typical Power Consumption	12W
Cooling	Cooling	Air Cool
Mechanic & Environment	Dimensions	1U rackmount, 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
	Packages	Industrial packaging (customized)
Operation System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-2N01

1U Rackmount Network Appliance, ARM-based Rockchip RK3568 Processor

Entry-level Series



- ARM-based Rockchip RK3568 quad-core Cortex-A55 64-bit processor
- 10 x GbE RJ45 ports, 8 x GbE SFP ports, 4 x 10GbE SFP+ ports
- Storage: Supports HDD/mSATA, eMMC, TF card
- Onboard DDR4 memory, 1 ~ 8GB optional
- Supports 4G/5G and Wi-Fi
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz (default: 1.8 GHz)
	Switch Chip	Netforward NF5180
RAM	Type	Onboard DDR4 2400 MHz, non-ECC
	Capacity	1 ~ 8GB (optional)
Network	Port	10 x GbE RJ45 ports, 8 x GbE SFP ports, 4 x 10GbE SFP+ ports
	Controller	2 x RK3568 MAC + RTL8211F PHY, 8 x NF5180 MAC + NF1008 PHY 8 x NF5180 MAC + YT8614QC PHY, 4 x NF5180 MAC
	Bypass	4 pairs optional (Gen3),LAN3~LAN4, LAN5~LAN6, LAN7~LAN8, LAN9~LAN10
Storage	mSATA	1 x mSATA SSD (mutually exclusive with SATA HDD)
	HDD	1 x 2.5”/3.5” SATA HDD (mutually exclusive with mSATA)
	TF	1 x TF card slot
	eMMC	1 x eMMC 5.1
I/O	Console	1 x RJ45 Console port (Cisco-compatible pinout)
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0 OTG
	GPIO	4
	Display	N/A
Expansion	mini PCIe	1 x mini PCIe
	M.2	1 x M.2 slot for 4G/5G module
	SIM Slot	1 x Micro SIM card slot(built-in)
Encryption	Encryption	Expandable via mini PCIe encryption card
Power Input	Power Input	Single power supply as standard, dual power supplies optional, AC 100–240 V, 50–60 Hz
Control & Signal	LED	4 x Bypass LEDs, 1 x 4G/5G LED, 1 x Wi-Fi LED, 1 x HDD LED, 1 x Power LED, 1 x Custom LED
	Button	1 x Custom button
Power Consumption	Typical Power Consumption	15W
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	1U rackmount, 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
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-6401

1U Rackmount Network Appliance, China-developed Phytium E2000Q ARM-based Processor



- Phytium E2000Q quad-core (listed in China's secure and reliable catalog)
- 6 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports, 2 x 10GbE SFP+ ports
- Storage: supports HDD/mSATA, eMMC, TF card
- Onboard DDR4 2400MHz, up to 16GB
- Fully China-localized compliant
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specification
Platform	CPU	Phytium E2000Q quad-core (listed in China's secure and reliable catalog)
	Frequency	Up to 2.0GHz
	Chipset	SoC
RAM	Type	Onboard DDR4, 2400MHz, ECC/non-ECC
	Capacity	Up to 16GB
Network	Port	6 x GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports, 2 x 10GbE SFP+ ports
	Controller	2 x RTL8111H-CG, 4 x WX1860A4, 2 x YT8531SC, 2 x CPU-direct Ethernet
	Bypass	2 pairs optional(Gen3): LAN3 ~ LAN4, LAN5 ~ LAN6
Storage	HDD/SSD	1 x 2.5”/3.5”SATA HDD
	mSATA	1 x mSATA SSD(mutually exclusive with SATA HDD)
	TF	1 x TF card slot
	eMMC	1 x eMMC 5.0
I/O	Console	1 x RJ45 Console, 2 x onboard COM pin headers
	USB	Upper：1 x USB2.0, lower：1 x USB2.0, 2 x onboard USB2.0 pin headers
	GPIO	8
Expansion	PCIe	Built-in side-mounted PCIe 4X expansion slot (×1 signal)
	M.2	1 x M.2 slot for 4G/5G module
	4G/5G	Optional
	SIM	1 x Micro SIM card slot
Power Input	Power Input	Single power supply as standard, dual/redundant power supplies optional, AC 100–240V, 50–60Hz
Control & Signal	LED	2 x Bypass LEDs, 1 x Power LED, 1 x Running LED
	Switch	1 x Power switch
	Button	1 x Reset Button
Power Consumption	Typical Power Consumption	18.64W
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	1U rackmount, 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	Industrial packaging (customizable)
System & Software	OS	Supports China-localized OS, mainstream Linux distributions, Windows, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-99AA

1U Rackmount Network Appliance, Intel® Alder Lake-N / Amston Lake Series Processor

Entry-level Series



- Onboard Intel® N100 / Core™ i3-N305 / Atom® x7000C series processor
- 4 x 2.5 GbE RJ45 ports/6 x 2.5 GbE RJ45 ports
- Storage: supports HDD, mSATA, eMMC
- DDR4 memory up to 3200MHz, max.16GB
- Supports rack-mount installation
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specification	
Platform	CPU	Intel® N100 / Core™ i3-N305 / Atom® x7000C series processor	
	Base Frequency	Depends on the specific CPU	
	Chipset	SoC	
RAM	Type	DDR4 up to 3200MHz, non-ECC	
	Slot	DDR4 SO-DIMM	
	Capacity	Up to 16GB	
Network	Port	4 x 2.5 GbE RJ45 ports	6 x 2.5 GbE RJ45 ports
	Controller	4 x Intel® I226-V	6 x Intel® I226-V
	Bypass	1 pair optional (Gen3), LAN3 ~ LAN4	6 pairs optional (Gen3), LAN3 ~ LAN4, LAN5 ~ LAN6
Expansion	mini PCIe	N/A	
	M.2	N/A	
	4G/5G/Wi-Fi	N/A	
I/O	Console	1 x RJ45 Console (Cisco-compatible pinout)	
	USB	2 x USB	
	GPIO	8	
Storage	HDD/SSD	1 x 2.5”/3.5”SATA HDD	
	eMMC	1 x eMMC 5.1	
	mSATA	1 x mSATA SSD	
Display	Display	1 x VGA, 1 x LCM (optional)	
Power Input	Power Input	Built-in single power supply, AC 100 ~ 240V, 50 ~ 60Hz	
Power Consumption	Typical Power Consumption	28.5W ~ 31.8W	
TPM	TPM	N/A	
Control & Signal	LED	1 x Power LED, 1 x HDD LED, 2 x Bypass LEDs	
	Button	1 x Custom button	
Cooling	Cooling	Air Cool	
Mechanical & Environmental	Dimensions	1U rackmount, 430 x 282 x 44mm (W x D x H)	
	Operating Temperature	0℃ ~ 40℃	
	Storage Environment	Storage temperature: -40℃～70℃, Storage humidity: 5～95%, non-condensing	
	Packaging	Industrial packaging (customizable)	
System & Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS	
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more	
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards	

NSC-2H12

2U Rackmount GAP Appliance, ARM-based Rockchip RK3568 Processor



- ARM-based Rockchip RK3568 quad-core Cortex-A55 64-bit processor
- 6 x GbE RJ45 ports, 2 x GbE SFP ports
- Storage:supports HDD, mSATA, eMMC, TF card
- Onboard DDR4 memory, 1 ~ 8GB optional
- Expandable encryption capability via mini PCIe
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz (default: 1.8 GHz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard DDR4 2400 MHz, non-ECC
	Capacity	1 ~ 8GB (optional)
Network	Port	6 x GbE RJ45 ports, 2 x GbE SFP ports
	Controller	6 x RTL8111H-CG, 2 x RTL8211FS
	Bypass	2 pairs optional (Gen3),LAN3~LAN4, LAN5~LAN6
Expansion	PCIe	Built-in side-mounted PCIe 4X expansion slot (x1 signal)
	4G/5G	N/A
	Wi-Fi	N/A
I/O	Console	1 x RJ45 console port (Cisco-compatible pinout), 2 x onboard pin headers
	USB	Upper: 1 x USB2.0, Lower: 1 x USB3.0 OTG, 1 x USB2.0 header
	GPIO	4
Storage	HDD/SSD	2 x 2.5"/3.5"SATA HDD
	mSATA	1 x mSATA SSD
	eMMC	1 x eMMC 5.1
	TF	1 x TF card slot
Encryption	Encryption	Expandable via mini PCIe encryption card
Display	Display	N/A
Power Input	Power Input	Single power supply as standard, dual/redundant power supplies optional, AC 100~240V 50~60Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 2 x Bypass LEDs (optional), 2 x Custom LEDs (optional)
Power Consumption	Typical Power Consumption	12W
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	2U rackmount, 430 x 450 x 88 mm (W x D x H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage temperature: -40℃ ~ 70℃, Storage humidity: 5% ~ 95%,non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-5012

Desktop Network Appliance, Intel Atom® Denverton C3000 Series Processor



- Onboard Intel Atom® Denverton C3000 series processor
- Onboard 2 x GbE RJ45 ports,4 x 2.5GbE RJ45 ports,2 x GbE RJ45/ SFP Combo ports
- Supports rack-mount installation
- DDR4 2133/2400 MHz memory, up to128GB
- Storage: supports HDD, eMMC, mSATA
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification			
Platform	CPU	C3338R (dual-core)	C3558R (quad-core)	C3758R (octa-core)	Intel Atom® Denverton C3000 series processor
	Chipset	1.8GHz	2.4GHz	2.4GHz	Depends on the specific CPU
	BIOS	UEFI			
	Chipset	SoC			
RAM	Type	DDR4 2133/2400 MHz, ECC/non-ECC			
	Capacity	Up to 128GB			
	Slot	2 x DDR4 SO-DIMM			
Network	Port	2 x GbE RJ45 ports, 4 x 2.5GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports			
	Controller	2 x Marvell 88E1514, 4 x Intel® I226-V, 1 x Marvell 88E1543			
	Bypass	3 pairs optional (Gen3), LAN3 ~ LAN4, LAN5 ~ LAN6, LAN7 ~ LAN8			
Expansion	NIC Expansion	N/A			
	mini PCIe	1 x mini PCIe			
	SIM	2 x Micro SIM card slots			
	M.2	1 x M.2 slot for 4G/5G module, 1 x M.2 slot for Wi-Fi module			
	4G/5G/Wi-Fi	Optional			
I/O	Console	1 x RJ45 Console (Cisco-compatible pinout), 1 x onboard pin header			
	USB	Upper：1 x USB2.0, Lower：1 x USB2.0, 1 x USB2.0 onboard pin header (supports 2 USB 2.0 ports)			
	GPIO	8			
Storage	HDD/SSD	1 x 2.5”SATA HDD			
	eMMC	1 x eMMC5.0			
	mSATA	1 x mSATA SSD			
Power Input	Power Input	Built-in single power supply, AC 100 ~ 240V, 50 ~ 60Hz			
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 1 x GPIO LED, 3 x Bypass LEDs (optional), 1 x SOHO dedicated LED set (including Power, HDD, LAN port, and Bypass LEDs; optional)			
	Switch	1 x Power switch			
	Reset	1 x Custom button			
Display	Display	N/A			
Power Consumption	Typical Power Consumption	35W			
Cooling	Cooling	Air Cool			
Mechanical & Environmental	Dimensions	Desktop, 310 x 203 x 44 mm (W x D x H), supports rack-mount installation			
	Operating Temperature	0℃ ~ 40℃			
	Storage Environment	Storage temperature：-40℃ ~ 70℃, Storage humidity：5% ~ 95%, non-condensing			
	Packaging	Industrial packaging (customizable)			
System & Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS			
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more			
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards			

NSC-7503

Desktop Network Appliance, Intel Atom® Denverton C3000 Series Processor

Mainstream Series



- Intel Atom® Denverton C3000 series processor
- 6 x GbE RJ45 ports, or 4 x GbE RJ45 ports + 2 x GbE SFP ports
- Storage: supports HDD, eMMC, M.2
- DDR4 2133/2400 MHz memory, up to 64GB
- Supports 4G/5G and Wi-Fi
- CE and CCC certified

Item	Parameter	Specification		
Platform	CPU	C3338R	C3558R	Intel Atom® Denverton C3000 series processor
	Base Frequency	1.8GHz	2.4GHz	Depends on the specific CPU
	Chipset	SoC		
RAM	Type	DDR4 2133/2400 MHz		
	Capacity	Up to 64GB		
	Slot	1 x DDR4 SO-DIMM		
Network	Port	6 x GbE RJ45 ports or 4 x GbE RJ45 ports, 2 x GbE SFP ports		
	Controller	2x Intel® I210AT / 2x Intel® 1210AS, 1 x Marvell 88E1543		
	Bypass	2 pairs optional (GEN3), LAN3～LAN4, LAN5～LAN6		
Expansion	PCIe	N/A		
	mini PCIe	1 x mini PCIe		
	M.2	2 x M.2 slots for 4G/5G modules		
	SIM	2 x Micro SIM card slots		
	Wi-Fi	Optional		
Storage	HDD/SSD	Optional (default: no)		
	mSATA	N/A		
	eMMC	1 x eMMC5.0		
	M.2	1 x 2280 M.2 (NVMe)		
I/O	Console	1 x RJ45 Console		
	USB	Upper: 1 x USB3.0, Lower: 1 x USB3.0		
	GPIO	4		
Control & Signal	LED	Refer to the interface layout for details		
	Button	1 x Custom button		
Power Consumption	Typical Power Consumption	40W		
Cooling	Cooling	Air Cool		
Power Input	Type	Power adapter, 12V / 60W, DC jack with threaded locking		
Mechanical & Environmental	Dimensions	Desktop, 240 x 200 x 44 mm (W x D x H), supports rack-mount installation		
	Operating Temperature	0℃ ~ 40℃		
	Storage Environment	Storage temperature: -40℃～70℃, Storage humidity: 5～95%, non-condensing		
	Packaging	Industrial packaging (customizable)		
TPM	TPM	Supports TPM2.0 (optional)		
System & Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS		
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more		
Product Certification	Certification	CE and CCC certified		

NSC-5101

1U Rackmount Network Appliance, China-developed Hygon C86-4G Processor



- Onboard Hygon C86-4G processor(listed in China's secure and reliable catalog)
- Supports up to 4 expansion NICs
- Storage: supports SATA, mSATA, M.2
- DDR5 5200 MHz memory, up to 128GB
- Fully China-localized compliant
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specification		
Platform	CPU	Default: Hygon 3490	Hygon 3450E	Hygon C86-4G series CPU (listed in China's secure and reliable catalog)
	Base Frequency	2.8GHz	3.6GHz	Depends on the specific CPU
	Chipset	N/A		
BIOS	BIOS	Sugon		
RAM	Type	DDR5 up to 5200 MHz, ECC/non-ECC		
	Capacity	Up to 128GB		
	Slot	4 x DIMM DDR5		
Network	Port	2 x GbE RJ45 ports		
	Controller	2 x Intel® I210-AT		
	Bypass	Supported via expansion card		
Expansion	NIC Expansion	4 x NIC expansion slots		
	PCIe	1 x PCIe 8X expansion slot (x2 signal, mutually exclusive with M.2 NVMe)		
	mini PCIe	N/A		
I/O	Console	1 x RJ45 console port (Cisco-compatible pinout)		
	USB	Upper: 1 x USB 3.0; lower: 1 x USB 3.0; 2 x onboard USB2.0 pin headers		
	GPIO	8		
Storage	HDD	1 x 2.5"/3.5"SATA HDD		
	mSATA	1 x mSATA SSD		
	M.2	1 x 2280 M.2 (NVMe)		
TPM	TPM	Supports TPM2.0 (optional)		
Power Input	Power Input	Supports CRPS redundant power supplies, AC 100-240 V, 50-60 Hz		
Display	Display	N/A		
Control & Signal	LED	1 x HDD LED, 1 x Power LED		
	Switch	1 x Power switch		
Power Consumption	Typical Power Consumption	140W (C86 3450E, C86 3490)		
Cooling	Cooling	Air Cool		
Mechanical & Environmental	Dimensions	1U rackmount, 440 x 557 x 44.5 mm (W x D x H)		
	Operating Temperature	0℃ ~ 40℃		
	Storage Environment	Storage temperature: -40℃~70℃, Storage humidity: 5~95%, non-condensing		
	Packaging	Industrial packaging (customizable)		
System & Software	OS	Supports China-localized OS, mainstream Linux distributions, Windows, and customer-specific OS		
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more		
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards		

NSC-67AA

1U Rackmount Network Appliance, China-developed Phytium E2000Q ARM-base Processor



- Phytium E2000Q quad-core 64-Bit processor (listed in China's secure and reliable catalog)
- 5 x GbE RJ45 , 4 x 2.5GbE Rj45 , 6 x GbE SFP , 2 x 10GbE SFP+
- Supports 1 expansion NIC
- Onbo ard DDR4 2400 MHz memory, up to 16 GB
- Storage: supports HDD/mSATA, eMMC, M.2
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specification
Platform	CPU	Phytium E2000Q quad-core (listed in China's secure and reliable catalog)
	Frequency	Up to 2.0GHz
	Switch ASIC	Netforward NF5180
RAM	Type	DDR4, 2400 SO-DIMM
	Capacity	Up to16GB
Network	Port	5 x GbE RJ45 ports, 4 x 2.5GbE RJ45 ports, 6 x GbE SFP ports, 2 x 10GbE SFP+ ports
	Controller	Motorcomm YT8531 and Netforward NF5180 Switch ASIC
	Bypass	N/A
Expansion	NIC Expansion	1 x NIC expansion slot (mutually exclusive with NVMe)
	mini PCIe	N/A
	M.2	N/A
Storage	mSATA	1 x mSATA SSD（mutually exclusive with SATA HDD）
	HDD	1 x 2.5”/3.5”SATA HDD(mutually exclusive with mSATA SSD)
	M.2	1 x 2280 M.2 (NVMe, mutually exclusive with NIC expansion)
	EMMC	1 x eMMC5.0
I/O	Console	1 x RJ45 Console
	USB	Upper: 1 x USB2.0 , lower: 1 x USB2.0
	GPIO	Supported
	Display	1 x VGA（Optional）
Power Input	Power Input	Single power supply as standard, dual power supplies optional, AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 1 x Custom LED
	Button	1 x Custom button
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	1U rackmount, 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	Industrial packaging (customizable)
System & Software	OS	Supports China-localized OS, mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-53AA

1U Rackmount Network Appliance, China-developed Hygon C86-1500 Processor



- Hygon C86-1500 series CPU (listed in China's secure and reliable catalog)
- 8 x GbE RJ45 ports, 8 x GbE SFP ports, 4 x 10GbE SFP+ ports
- Support 1 expansion NIC
- DDR5 4800MHz SO-DIMM
- Storage: supports HDD/mSATA, eMMC
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specification
Platform	CPU	Hygon C86-1500 series CPU (listed in China's secure and reliable catalog)
	Frequency	Up to 2.0GHz
	Switch ASIC	Netforward NF5180
RAM	Type	DDR5, 4800MHz
	Capacity	2 x SO-DIMM
Network	Port	8 x GbE RJ45 ports, 8 x GbE SFP ports, 4 x 10GbE SFP+ ports
	Controller	Netforward NF5180 Switch ASIC
	Bypass	4 pairs optional(Gen3): LAN2 ~ LAN3, LAN4 ~ LAN5, LAN6 ~ LAN7, LAN8 ~ LAN9
Expansion	NIC Expansion	1 x NIC expansion slot
	mini PCIe	1 x mini PCIe
	M.2	N/A
Storage	HDD	1 x 2.5”/3.5”SATA HDD
	mSATA	1 x mSATA SSD
	M.2	N/A
	eMMC	1 x eMMC5.0
I/O	Console	1 x RJ45 Console
	USB	2 x USB2.0
	GPIO	Supported
Display	Display	1 x HDMI, 1 x VGA(optional)
Power Input	Power Input	Single power supply as standard, dual power supplies optional, AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 1 x Custom LED, 4 x Bypass LEDs
	Button	1 x Custom button
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	1U rackmount, 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	Industrial packaging (customizable)
System & Software	OS	Supports China-localized OS, mainstream Linux distributions, Windows, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-55AA

1U Rackmount Network Appliance, China-developed Hygon C86-4G Processor

Mainstream Series



- Hygon C86-4G series CPU (listed in China's secure and reliable catalog)
- Supports 1 expansion NIC
- China-localized network ports, supports 24 x 10GbE SFP+, 2 x 40GbE QSFP+ ports
- DDR5 5200MHz, up to 128GB
- Storage: supports mSATA and M.2
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specification
Platform	CPU	Hygon C86-4G series CPU (listed in China's secure and reliable catalog)
	Switch ASIC	Centec CTC7148
BIOS	BIOS	Sugon BIOS
RAM	Type	DDR5 up to 5200MHz
	Capacity	Up to 128GB
	Slot	DDR5 DIMM
Network	Port	24 x 10GbE SFP+ ports, 2 x 40GbE QSFP+ ports
	Controller	MUCSE N210, 1 x Centec CTC7132
	Bypass	N/A
I/O	Console	1 x RJ45 Console
	USB	Upper: 1 x USB3.0, lower: 1 x USB3.0
Expansion	NIC Expansion	1 x NIC expansion slot
	PCIe	N/A
	mini PCIe	1 x mini PCIe
Storage	HDD	1 x 2.5”/3.5”SATA HDD
	M.2	1 x 2280 M.2（NVMe）
	mSATA	1 x mSATA SSD
Display	Display Port	Optional
Power Input	Power Input	CRPS redundant power supplies supported, AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x Power LED, 1 x Status LED
	Button	N/A
	PANEL	1 x PANEL pin header
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	1U rackmount, 440 x 450 x 44mm(W x D x H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage temperature：-40℃ ~ 70℃, Storage humidity: 5% ~ 95%, non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports China-localized OS, mainstream Linux distributions, Windows, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-52AA

1U Rackmount Network Appliance, China-developed Hygon C86-4G Processor



- Hygon C86-4G series CPU (listed in China's secure and reliable catalog)
- Storage: supports SATA, mSATA and M.2
- China-localized network ports, supports 44 x 10GbE SFP+, 4 x 25GbE SFP28,6 x 100GbE QSFP28 ports
- DDR5 5200 MHz memory, up to 128GB
- Supports CRPS redundant power supply
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specification
Platform	CPU	Hygon C86-4G series CPU (listed in China's secure and reliable catalog)
	Switch ASIC	Centec CTC7148
BIOS	BIOS	Sugon BIOS
RAM	Type	DDR5 up to 5200 MHz ECC/non-ECC
	Capacity	up to128GB
	Slot	DDR5 DIMM
Network	Port	1 x GbE RJ45 ports, 44 x 10GbE SFP+, 4 x 25GbE SFP28 ports, 6 x 100GbE QSFP28 ports
	Controller	MUCSE N210, 1 x Centec CTC7132
	Bypass	N/A
I/O	Console	1 x RJ45 Console
	USB	Upper: 1 x USB2.0, lower: 1 x USB2.0 (2 x USB3.0 optional)
	GPIO	8
Expansion	NIC Expansion	N/A
	PCIe	N/A
	mini PCIe	N/A
Storage	HDD	N/A
	M.2	1 x 2280 M.2 (NVMe)
	mSATA	1 x mSATA SSD
Display	Display Port	1 x VGA(optional)
Power Input	Power Input	Supports CRPS redundant power supplies, AC 100 ~ 240V, 50 ~ 60Hz
Control & Signal	LED	1 x Power LED, 1 x 100G Inline Port LED
	PANEL	1 x PANEL pin header
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	1U rackmount, 440 x 560 x 44mm(W x D x H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage temperature：-40℃ ~ 70℃, Storage humidity: 5% ~ 95%,non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports China-localized OS, mainstream Linux distributions, Windows, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-5013

1U Rackmount Network Appliance, Intel Atom® Denverton C3000 Series Processor

Mainstream Series



- Onboard Intel Atom® Denverton C3000 series processor
- Onboard 2 x GbE RJ45 ports, 4 x 2.5GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports
- Supports 4G/5G/Wi-Fi expansion
- DDR4 2133/2400 MHz memory, up to128GB
- Supports up to 1 expansion NIC for flexible module configuration
- Complies with CE,KC,CCC,FCC,and other standards

Type	Parameter	Specification			
Platform	CPU	C3338R(dual-core)	C3558R(quad-core)	C3758R (octa-core)	Intel Atom® Denverton C3000 series processor
	Chipset	1.8GHz	2.4GHz	2.4GHz	Depends on the specific CPU
	BIOS	UEFI			
	Chipset	SoC			
RAM	Type	DDR4 2133/2400 MHz ECC/non-ECC			
	Capacity	Up to 128GB			
	Slot	2 x DDR4 SO-DIMM			
Network	Port	2 x GbE RJ45 ports, 4 x 2.5GbE RJ45 ports, 2 x GbE RJ45/SFP Combo ports			
	Controller	2 x Marvell88E1514, 4 x Intel® I226-V, 1 x Marvell88E1543			
	Bypass	3 pairs optional (Gen3), LAN1 ~ LAN2, LAN3 ~ LAN4, LAN5 ~ LAN6			
Expansion	NIC Expansion	1 x NIC expansion slot			
	mini PCIe	1 x mini PCIe			
	SIM	2 x Micro SIM card slots			
	M.2	1 x M.2 slot for 4G/5G module, 1 x M.2 slot for Wi-Fi module			
	4G/5G/Wi-Fi	Optional			
I/O	Console	1 x RJ45 Console (Cisco-compatible pinout), 1 x onboard pin header			
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0, 1 x USB2.0 onboard pin header (supports 2 USB 2.0 ports)			
	Display	1 x LCM (optional)			
	GPIO	8			
Storage	HDD	1 x 2.5”/3.5”SATA HDD			
	eMMC	1 x eMMC5.0			
	mSATA	1 x mSATA SSD			
Power Input	Power Input	Supports single or dual power supply (optional)，AC 100 ~ 240V, 50 ~ 60Hz			
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 1 x GPIO LED, 3 x Bypass LEDs (optional)			
	Power Input	1 x Power switch			
	Reset	1 x Custom button			
Power Consumption	Typical Power Consumption	35W			
Cooling	Cooling	Air Cool			
Mechanical & Environmental	Dimensions	1U rack-mountable, 430 x 360 x 44 mm (W x D x H)			
	Operating Temperature	0℃ ~ 40℃			
	Storage Environment	Storage temperature：-40℃ ~ 70℃, Storage humidity：5% ~ 95%, non-condensing			
	Packaging	Industrial packaging (customizable)			
System & Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS			
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more			
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards			

NSC-7401

1U Rackmount Network Appliance, Intel Atom® Denverton C3000 Series Processor

Mainstream Series



- Intel Atom® Denverton C3000 series processor
- 6 x GbE RJ45 ports, 4 x 10GbE SFP+ ports
- Supports 1 expansion NIC
- DDR4, 2133/2400 MHz, up to 128GB
- Storage: supports HDD, eMMC and mSATA
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specification		
Platform	CPU	C3758R(octa-core)	C3958 (16-Core)	Intel Atom® Denverton C3000 series processor
	Base Frequency	2.4GHz	2.0GHz	Depends on the specific CPU
	BIOS	UEFI		
	Chipset	SoC		
RAM	Type	DDR4 2133/2400 MHz, ECC/non-ECC		
	Capacity	up to 128GB		
	Slot	2 x DDR4 DIMMs		
Network	Port	6 x GbE RJ45 ports, 4 x 10GbE SFP+ ports		
	Controller	2 x Intel® I210-AT, 1 x Intel® I350-AM4		
	Bypass	3 pairs optional (Gen3), LAN1 ~ LAN2, LAN3 ~ LAN4, LAN5 ~ LAN6		
Expansion	NIC Expansion	1 x NIC expansion slot		
	M.2	1 x M.2 slot for 4G/5G module		
	SIM	1 x Micro SIM card slot(optional)		
	4G/5G	Optional		
I/O	Console	1 x RJ45 Console(Cisco-compatible pinout), 1 x onboard pin header		
	USB	Upper: 1 x USB2.0, lower: 1 x USB2.0, 1 x onboard USB2.0 pin header (supports 2 USB 2.0 ports)		
	Display	1 x LCM (optional)		
	GPIO	N/A		
Storage	HDD	1 x 2.5”/3.5”SATA HDD		
	eMMC	1 x eMMC 5.0		
	mSATA	1 x mSATA SSD		
TPM	TPM	Supported		
Power Input	Power Input	Single power supply as standard, dual power supplies optional, AC 100～240V, 50～60Hz		
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 3 x Bypass LEDs(optional)		
	Switch	1 x Power switch		
	Button	N/A		
Power Consumption	Typical Power Consumption	40W		
Cooling	Cooling	Air Cool		
Mechanical & Environmental	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		
	Packaging	Industrial packaging (customizable)		
System & Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS		
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more		
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards		

NSC-7411

1U Rackmount Network Appliance, Intel Atom® Denverton C3000 Series Processor



- Intel Atom® Denverton C3000 series processor
- 6 x GbE RJ45 ports, 4 x 10GbE SFP+ ports
- Supports 2 expansion NICs
- DDR4 2133/2400 MHz memory, up to 128GB
- Storage: supports HDD, eMMC and mSATA
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specification		
Platform	CPU	C3758R(octa-core)	C3958 (16-Core)	Intel Atom® Denverton C3000 series processor
	Base Frequency	2.4GHz	2.0GHz	Depends on the specific CPU
	BIOS	UEFI		
	Chipset	SoC		
RAM	Type	DDR4 2133/2400 MHz ECC/non-ECC		
	Capacity	up to 128GB		
	Slot	2 x DDR4 DIMMs		
Network	Port	6 x GbE RJ45 ports, 4 x 10GbE SFP+ ports		
	Controller	2 x Intel® I210-AT, 1 x Intel® I350-AM4		
	Bypass	3 optional pairs(Gen3): LAN1 ~ LAN2, LAN3 ~ LAN4, LAN5 ~ LAN6		
Expansion	NIC expansion	1 x NIC expansion slots		
	M.2	1 x M.2 slot for 4G/5G module		
	SIM	1 x SIM card slot(optional)		
	4G/5G	Optional		
I/O	Console	1 x RJ45 Console(Cisco-compatible pinout), 1 x onboard pin header		
	USB	Upper: 1 x USB2.0, lower: 1 x USB2.0, 1 x onboard USB2.0 pin header (supports 2 USB 2.0 ports)		
	Display	N/A		
	GPIO	N/A		
Storage	HDD	1 x 2.5"/3.5"SATA HDD		
	eMMC	1 x eMMC5.0		
	mSATA	1 x mSATA SSD		
TPM	TPM	Supported		
Power Input	Power Input	Single power supply as standard, dual power supplies optional, AC 100 ~ 240V, 50 ~ 60Hz		
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 3 x Bypass LEDs (optional)		
	Switch	1 x Power switch		
	Button	N/A		
Power Consumption	Typical Power Consumption	40W		
Cooling	Cooling	Air cool		
Mechanical & Environmental	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		
	Packaging	Industrial packaging (customizable		
System & Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS		
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more		
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards		

NSC-5016

1U Rackmount Network Appliance, Intel Atom ® Denverton C3000 Series Processor

<<< Mainstream Series



- Onboard Intel Atom® Denverton C3000 series processor
- Supports up to 3 pairs of Bypass
- Supports up to 1 expansion NIC for flexible module configuration
- DDR4 2133/2400MHz memory, up to 128GB
- Storage: supports HDD, eMMC, CF, mSATA
- Complies with CE, KC, CCC, FCC and other standards

Item	Parameter	Specifications		
Platform	CPU	C3558R (quad-core)	C3758R (octa-core)	C3958 (16-core)
	Base Frequency	2.4GHz	2.4GHz	2.0GHz
	BIOS	UEFI		
	Chipset	SoC		
RAM	Type	DDR4 2133/2400 MHz, ECC/non-ECC		
	Capacity	Up to 128GB		
	Slot	2 x DDR4 DIMMs		
Network	Port	8 x GbE RJ45 ports, 2 x GbE SFP ports, 2 x 10GbE SFP+ ports	8 x GbE RJ45 ports, 4 x 10GbE SFP+ ports	
	Controller	2 x Intel i350-AM4, 4 x Intel x553		
	Bypass	3 pairs optional(Gen3): LAN3 ~ LAN4, LAN5 ~ LAN6, LAN7 ~ LAN8		
Expansion	NIC Expansion	1 x NIC expansion		
	mini PCIe	1 x mini PCIe（mutually exclusive with NIC expansion）		
	SIM	1 x Micro SIM（mutually exclusive with NIC expansion）		
	M.2	1 x M.2 for 4G/5G module, 1 x M.2 for Wi-Fi module（mutually exclusive with NIC expansion）		
	4G/5G/Wi-Fi	N/A		
I/O	Console	1 x RJ45 Console (Cisco-compatible), 1 x onboard pin header		
	USB	Upper:1 x USB2.0; Lower:1 x USB2.0, 1 x onboard USB 2.0 pin header (supports 2 USB 2.0 ports)		
	GPIO	N/A		
Storage	HDD/SSD	1 x 2.5”/3.5”SATA HDD		
	eMMC	1 x eMMC5.0		
	CF Card	1 x CF card slot		
	mSATA	1 x mSATA SSD		
Display	Display	1 x LCM (optional)		
Power Input	Power Input	Single power as standard, dual/redundant power supplies optional, AC 100 ~ 240V, 50 ~ 60Hz		
Control&Signal	LED	1 x Power LED,1 x HDD LED,1 x GPIO LED,3 x Bypass LEDs (optional)		
	Button	1 x Power switch		
Power Consumption	Typical Power Consumption	40W		
Cooling	Cooling	Air Cool		
Mechanical& Environmental	Dimensions	1U rackmount, 440 x 450 x 44 mm (W × D × H)		
	Operating Temperature	0℃ ~ 40℃		
	Storage Environment	-40℃~70℃, Humidity:5%~95%, non-condensing		
	Packaging	Industrial packaging (customizable)		
System&Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS		
	Software	Provides SDK, DPDK, Driver, BIOS, Watchdog, Bypass and more		
Product Certification	Certification	Complies with CE, KC, CCC, FCC and other standards		

NSC-7701

1U Rackmount Network Appliance, Intel Atom ® Denverton C3000 Series Processor

Mainstream Series



- Onboard Intel Atom® Denverton C3000 Series Processor
- 6 x GbE RJ45 ports, 2 x 10GbE SFP+ ports
- Supports up to 1 expansion NIC
- DDR4 2133/2400 MHZ memory, up to 128GB
- Storage: supports HDD, eMMC, mSATA
- Complies with CE, KC, CCC, FCC and other standards

Item	Parameter	Specifications		
Platform	CPU	C3558R (quad-core)	C3758R (octa-core)	Intel Atom® Denverton C3000 series processor
	Frequency	2.4GHz	2.4GHz	Depends on the specific CPU
	BIOS	UEFI		
	Chipset	SoC		
RAM	Type	DDR4 2133/2400 MHz, ECC/non-ECC		
	Capacity	Up to 128GB		
	Slot	2 x DDR4 DIMMs		
Network	Port	6 x GbE RJ45 ports, 2 x 10GbE SFP+ ports		
	Controller	1 x Marvell 88E1543, 1 x WX1860A4		
	Bypass	3 pairs optional (Gen3), LAN1 ~ LAN2,LAN3 ~ LAN4,LAN5 ~ LAN6		
Expansio	NIC Expansion	1 x NIC expansion		
	mini PCIe	1 x mini PCIe		
	PCIe	1 x PCIe 8X expansion slot（x4 signal）		
	Wi-Fi	Optional		
I/O	Console	1 x RJ45 Console(Cisco-compatible), 1 x onboard pin header		
	USB	Upper:1 x USB2.0; Lower:1 x USB3.0,1 x onboard USB 2.0 pin header (supports 2 USB 2.0 ports)		
	Display	1 x LCM (optional)		
	GPIO	4		
Storage	HDD/SSD	1 x 2.5”/3.5”SATA HDD		
	mSATA	1 x mSATA SSD		
	eMMC	1 x eMMC5.0		
Power Input	Power Input	Single power supply as standard, dual/redundant power supplies optional, AC 100 ~ 240V, 50 ~ 60Hz		
Control&Signal	LED	1 x Power LED,1 x HDD LED,1 x GPIO LED,3 x Bypass LEDs(optional)		
	Button	1 x Power switch		
Power Consumption	Typical Power Consumption	40W		
Cooling	Cooling	Air Cool		
Mechanical& Environmental	Dimensions	1U rackmount, 440 x 450 x 44 mm (W × D × H)		
	Operating Temperature	0℃ ~ 40℃		
	Storage Environment	-40℃~70℃, Humidity:5%~95%, non-condensing		
	Packaging	Industrial packaging (customizable)		
System& Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS		
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass and more		
Product Certification	Certification	Complies with CE, KC, CCC, FCC and other standards		

NSC-8C01

1U Rackmount Network Appliance, Intel®
Alder Lake-S Processor

Mainstream Series



- Supports Intel® 12th/13th/14th Gen Core™ /Pentium® /Celeron® processor
- Onboard Intel® R680E chipset
- Supports up to 4 expansion NICs
- DDR5 5600MHz memory, up to 192GB
- Storage: HDD, mSATA, M.2
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specification
Platform	CPU	Supports Intel® 12th/13th/14th Gen Core™/Pentium® /Celeron® processor
	Chipset	Intel® R680E chipset
BIOS	BIOS	UEFI
RAM	Type	DDR5 up to 5600 MHz, ECC/non-ECC
	Capacity	Up to 192GB
	Slot	4 x DDR5 DIMMs
Network	Port	2 x GbE RJ45 ports
	Controller	2 x Intel® I210-AT
	Bypass	Supported via NIC expansion module
Expansion	NIC Expansion	4 x NIC expansion slots
	PCIe	Built-in PCIe 8X expansion slot (x8 signal)
	M.2	N/A
	mini PCIe	1 x mini PCIe (optional)
	Wi-Fi	Optional
	4G/5G	N/A
Storage	HDD/SSD	1 x 2.5”SATA HDD
	mSATA	1 x mSATA SSD
	M.2	1 x 2280 M.2 (NVMe)
I/O	Console	1 x RJ45 Console
	USB	2 x USB3.0
	GPIO	8
Display	Display	1 x HDMI (built-in), 1 x VGA (optional)
Power Input	Power Input	Built-in CRPS redundant power supplies, 100~240 V, 50~60 Hz
TPM	TPM	Supported
Control & Signal	LED	1 x HDD LED, 1 x Power LED
	Switch	1 x Power switch
Power Consumption	Typical Power Consumption	Depends on the specific CPU and selected configuration
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	440 x 560 x 44 mm (W x D x H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage Temperature: -40°C ~ 70°C; Storage Humidity: 5% ~ 95%, non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-8D01

1U Rackmount Network Appliance, Intel®
Alder Lake-S Processor

Mainstream Series



- Supports Intel® 12th/13th/14th Gen Core™/Pentium®/Celeron® processor
- 1 x GbE RJ45 port, 8 x 2.5GbE RJ45 ports, 2 x GbE SFP ports
- Supports up to 2 expansion NICs
- DDR5 5600MHz memory, up to 192GB
- Storage: supports HDD, mSATA, M.2
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specifications
Platform	CPU	Supports Intel® 12th/13th/14th Gen Core™/Pentium® /Celeron® processor
	Chipset	Intel® R680E chipset
BIOS	BIOS	UEFI
RAM	Type	DDR5 up to 5600 MHz, ECC/non-ECC
	Capacity	Up to 192GB
	Slot	4 x DDR5 DIMMs
Network	Port	1 x GbE RJ45 port, 8 x 2.5GbE RJ45 ports, 2 x GbE SFP ports
	Controller	1 x Intel® I210-AT, 8 x Intel® I226, 2 x Intel® I210-AS
	Bypass	4 pairs optional (Gen3), LAN2 ~ LAN3, LAN4 ~ LAN5, LAN6 ~ LAN7, LAN8 ~ LAN9
Storage	HDD/SSD	1 x 2.5”/3.5”SATA HDD
	mSATA	1 x mSATA SSD
	M.2	1 x 2280 M.2 (NVMe)
Expansion	NIC Expansion	2 x NIC expansion slots
	PCIe	1 x PCIe 8X expansion slot (x8 signal)
	mini PCIe	1 x mini PCIe
	Wi-Fi/4G/5G	Optional
I/O	Console	1 x RJ45 Console
	USB	Upper: 1 × USB3.0; Lower: 1 × USB3.0
	GPIO	8
Display	Display	1 x HDMI (built-in), 1 x VGA (optional), 1 x LCM (optional)
Power Input	Power Input	Single power supply as standard, 250W, redundant power supplies optional, AC 100–240 V, 50–60 Hz
TPM	TPM	Supported
Control& Signal	LED	1 x Power LED, 1 × HDD LED, 1 × Custom LED, 4 × Bypass LEDs
	Switch	1 x Power switch
Power Consumption	Typical Power Consumption	Depends on the specific CPU and selected configuration
Cooling	Cooling	Air Cool
Mechanical& Environmental	Dimensions	1U rackmount, 440 × 560 × 44 mm (W × D × H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage Temperature: -40°C ~ 70°C; Storage Humidity: 5% ~ 95%, non-condensing
	Packaging	Industrial packaging (customizable)
System& Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS
	Software	Provides SDK, DPDK, Drivers, BIOS, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-82AA

1U Rackmount Network Appliance, Intel®
Alder Lake Processor



- Supports Intel®12th/13th/14th Gen Core™/Pentium®/Celeron® processor
- 1 x GbE RJ45 port, 6 x 2.5GbE RJ45 ports
- Supports 1 × expansion NIC
- DDR5 up to 4800MHz memory, max. 128GB
- Storage: supports HDD, mSATA, M.2
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameters	Specifications
Platform	CPU	Supports Intel® 12th/13th/14th Gen Core™/Pentium®/Celeron® processor
	BIOS	UEFI
	Chipset	Intel® H610
RAM	Type	Supports DDR5, up to 4800MHz
	Capacity	Up to 128GB
	Slot	2 x DDR5 SO-DIMMs
Network	Port	1 x GbE RJ45 port, 6 x 2.5GbE RJ45 ports
	Controller	LAN1: MAC + Intel® I219; LAN2~7: Intel® I226-V
	Bypass	2 pairs optional (Gen3), LAN4 ~ LAN5, LAN6 ~ LAN7
I/O	Console	1 x RJ45 / 1 x USB Type-C Console port
	USB	2 x USB3.0
	GPIO	8
Expansion	NIC Expansion	1 x NIC expansion slot
	TPM	Supports TPM2.0
Storage	HDD	1 x 2.5”/3.5”SATA HDD
	mSATA	1 x mSATA SSD
	M.2	1 x 2280 M.2（NVMe）
Display	HDMI	1 x HDMI
	LCM	1 x LCM（optional）
Power Input	Power Input	CRPS redundant power supplies supported, AC 100~240V, 50~60Hz
Control & Signal	LED	Refer to the interface layout for details
	Button	1 x Custom button
	PANEL	1 x PANEL pin header
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	1U rackmount, 440 × 430 × 44.5 mm (W × D × H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage Temperature: -40°C ~ 70°C; Storage Humidity: 5% ~ 95%, non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC and other certification standards

NSC-5102

2U Rackmount Network Appliance, China-developed Hygon C86-4G Processor



- Hygon C86-4G series CPU (listed in China's secure and reliable catalog)
- Supports 4 expansion NICs
- Storage: supports SATA, mSATA and M.2
- DDR5 5200 MHZ memory, up to 128GB
- Supports CRPS redundant power supply
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specification		
Platform	CPU	Default: Hygon 3490	Hygon 3450E	Hygon C86-4G series CPU
	Base Frequency	2.8GHz	3.6GHz	Depends on the specific CPU
	Chipset	N/A		
BIOS	BIOS	Sugon BIOS		
RAM	Type	DDR5 up to 5200 MHz, ECC/non-ECC		
	Capacity	Up to 128GB		
	Slot	4 x DIMM DDR5		
Network	Port	2 x GbE RJ45 ports		
	Controller	2 x Intel® I210-AT		
	Bypass	Supported via NIC expansion module		
Storage	NIC Expansion	4 x NIC expansion slots		
	PCIe Expansion	1 x PCIe 8X expansion slot (x2 signal, mutually exclusive with NVMe)		
	mini PCIe	N/A		
I/O	Console	1 x RJ45 Console（Cisco-compatible pinout）		
	USB	Upper: 1 x USB2.0, lower: 1 x USB2.0, 2 x onboard USB2.0 pin headers, 2 x onboard USB3.0 pin headers		
	GPIO	8		
Storage	HDD	3 x 2.5”/3.5”SATA HDD		
	mSATA	1 x mSATA SSD		
	M.2	1 x 2280 M.2（NVMe）		
TPM	TPM	Supports TPM2.0 (optional)		
Power Input	Power Input	CRPS redundant power supplies supported, AC 100~240V, 50~60Hz		
Display	Display	1 x LCM (optional)		
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 1 x Custom LED		
	Switch	1 x Power switch		
	Button	1 x Custom button		
Power Consumption	Typical Power Consumption	140W（C86 3490）		
Cooling	Cooling	Air Cool		
Mechanical & Environmental	Dimensions	2U rackmount, 440 x 557 x 88 mm (W x D x H)		
	Operating Temperature	0℃ ~ 40℃		
	Storage Environment	Storage temperature: -40℃～70℃, Storage humidity: 5～95%, non-condensing		
	Packaging	Industrial packaging (customizable)		
System & Software	OS	Supports China-localized OS, mainstream Linux distributions, Windows, and customer-specific OS		
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more		
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards		

NSC-7712

2U Rackmount Network Appliance, Intel Atom® Denverton C3000 Series Processor

<<< Mainstream Series



- Onboard Intel Atom® Denverton C3000 Series Processor
- 6 x GbE RJ45 ports, 2 x 10GbE SFP+ ports
- Supports 1 expansion NIC
- DDR4 2133/2400 MHz memory, up to 128GB
- Storage: supports HDD, eMMC and mSATA
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specification		
Platform	CPU	C3558R (quad-core)	C3758R (octa-core)	Supports Intel® Atom® C3000 series processors
	Base Frequency	2.4GHz	2.4GHz	Depends on the specific CPU
	BIOS	UEFI		
	Chipset	SoC		
RAM	Type	DDR4 2133/2400 MHz, ECC/non-ECC		
	Capacity	Up to 128GB		
	Slot	2 x DDR4 DIMMs		
Network	Port	6 x GbE RJ45 ports, 2 x 10GbE SFP+ ports		
	Controller	1 x Marvell 88E1543, 1 x WX1860A4		
	Bypass	3 pairs optional (Gen3): LAN1~LAN2, LAN3~LAN4, LAN5~LAN6		
Expansion	NIC expansion	1 x NIC expansion slot		
	mini PCIe	1 x mini PCIe		
	PCIe expansion	1 x PCIe 8X slot (x8 signal)		
	Wi-Fi	Optional		
I/O	Console	1 x RJ45 console port (Cisco-compatible pinout), 1 x onboard pin header		
	USB	Upper: 1 x USB2.0, Lower: 1 x USB3.0, 1 x onboard USB2.0 pin header		
	Display	1 x LCM (optional)		
	GPIO	4		
Storage	HDD/SSD	2 x 2.5”/3.5”SATA HDD		
	mSATA	1 x mSATA SSD		
	eMMC	1 x eMMC5.0		
Power Input	Power Input	Single power supply as standard, dual/redundant power supplies optional, AC 100~240V 50~60Hz		
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 1 x GPIO LED, 3 x Bypass LEDs, (optional)		
	Power Button	1 x Power switch		
	Reset Button	1 x Custom button		
Power Consumption	Typical Power Consumption	40W		
Cooling	Cooling	Air Cool		
Mechanical & Environmental	Dimensions	2U rackmount, 440 x 450 x 88 mm (W x D x H)		
	Operating Temperature	0℃ ~ 40℃		
	Storage Environment	Storage temperature: -40℃ ~ 70℃, Storage humidity: 5% ~ 95%, Non-condensing		
	Packaging	Industrial packaging (customizable)		
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS		
	Software	Provides SDK, DPDK, Driver, BIOS, U-Boot, GPIO, Watchdog, Bypass and more		
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards		

NSC-6025

2U Rackmount Network Appliance, Intel® Skylake Processor

Mainstream Series



- Onboard Intel® Skylake C236 Chipset
- Supports 6th/7th/8th/9th Gen Intel® Xeon® E3/Core™/Pentium®/ Celeron® processor
- Supports up to 4 expansion NICs
- DDR4, 1866/2133MHz memory, up to 64GB
- Supports single power supply / redundant power supply
- Complies with CE, KC, CCC, FCC and other standards

Item	Parameters	Specifications
Platform	CPU	Supports 6th/7th/8th/9th Gen Intel® Xeon® E3/Core™/Pentium® /Celeron® processors
	BIOS	UEFI
	Chipset	Intel® C236
RAM	Type	DDR4 1866/2133 MHz, ECC/non-ECC
	Capacity	Up to 64GB
	Slot	4 x DDR4 DIMMs
Network	Port	2 x GbE RJ45 ports
	Controller	2 x Intel® I210-AT
	Bypass	Supported, expandable via NIC modules
Expansion	NIC Expansion	4 x NIC expansion slots
	PCIe	Built-in 2 x PCIe 8X expansion slots (x8 signal)
	mini PCIe	2 x mini PCIe
	Wi-Fi	N/A
I/O	Console	1 x RJ45 Console (Cisco-compatible), 2 x onboard pin headers
	USB	Upper: 1 x USB3.0; Lower: 1 x USB3.0, 1 x USB2.0 onboard header (1-to-2), 1 x USB3.0 onboard header (1-to-2)
	Display	1 x VGA interface (optional), 1 x LCM (optional)
	GPIO	8
Storage	HDD/SSD	4 x 2.5”/3.5”SATA HDD
	CF Card	1 x CF card slot (mutually exclusive with mSATA function)
	mSATA	1 x mSATA SSD (mutually exclusive with CF card function)
Power Input	Power Input	Single power supply as standard, 250 W, redundant power supplies optional, AC 100~240V, 50~60Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 1 x GPIO LED
	Switch	1 x Power switch
	Reset Key	1 x Custom button
Power Consumption	Typical Power Consumption	Depends on the specific CPU and selected configuration
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	2U rackmount, 440 × 560 × 88 mm (W × D × H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage Temperature: -40°C ~ 70°C; Storage Humidity: 5% ~ 95%, non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC and other standards

NSC-8C02

2U Rackmount Network Appliance, Intel®
Alder Lake-S Processor

Mainstream Series



- Supports Intel® 12th/13th/14th Gen Core™/Pentium®/Celeron® processor
- Onboard Intel® R680E chipset
- Supports up to 8 expansion NICs
- DDR5 5600MHz memory, up to 192GB
- Storage: supports HDD, mSATA, M.2
- Complies with CE, KC, CCC, FCC and other standards

Item	Parameters	Specifications
Platform	CPU	Supports Intel® 12th/13th/14th Gen Core™/Pentium® /Celeron® processor
	Chipset	Intel R680E Chipset
BIOS	BIOS	UEFI
RAM	Type	DDR5 up to 5600 MHz, ECC/non-ECC
	Capacity	Up to 192GB
	Slot	4 x DDR5 DIMMs
Network	Port	2 x GbE RJ45 ports
	Controller	2 x Intel® I210-AT
	Bypass	Supported, expandable via NIC modules
Storage	HDD/SSD	2 x 2.5”/3.5”SATA HDD
	mSATA	1 x mSATA SSD
	M.2	1 x 2280 M.2(NVMe)
Expansion	NIC Expansion	8 x NIC expansion slots
	PCIe	Built-in 2 × PCIe 8X expansion slots (x8 signal)
	M.2	N/A
	mini PCIe	1 x mini PCIe（optional）
	Wi-Fi	optional
	4G/5G	N/A
I/O	Console	1 x RJ45 Console
	USB	Upper: 1 × USB3.0; Lower: 1 × USB3.0
	GPIO	8
Display	Display	1 × HDMI (onboard), 1 × VGA port (optional), 1 x LCM (optional)
Power Input	Power Input	Supports CRPS redundant power supplies, AC 100~240V, 50~60Hz
TPM	TPM	Supported
Control & Signal	Indicators	1 x HDD LED, 1 x Power LED
	Button/Switch	1 x Power switch
Cooling	Cooling	Air Cool
Power Consumption	Typical Power Consumption	Depends on the specific CPU and selected configuration
Mechanical & Environmental	Dimensions	2U rackmount, 440 × 560 × 88 mm (W × D × H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage Temperature: -40°C ~ 70°C; Storage Humidity: 5% ~ 95%, non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC and other standards

NSC-8D02

2U Rackmount Network Appliance, Intel®
Alder Lake-S Processor

Mainstream Series



- Supports Intel® 12th/13th/14th Gen Core™/Pentium®/Celeron® processor
- 1 × GbE RJ45 port, 8 × 2.5GbE RJ45 ports, 2 × GbE SFP ports
- Supports up to 4 expansion NICs
- DDR5 5600MHz memory, up to 192GB
- Storage: supports HDD, mSATA, M.2
- Complies with CE, KC, CCC, FCC and other standards

Item	Parameters	Specifications
Platform	CPU	Supports Intel® 12th/13th/14th Gen Core™/Pentium®/Celeron® processor
	Chipset	Intel® R680E Chipset
BIOS	BIOS	UEFI
RAM	Type	DDR5 5600 MHz, ECC/non-ECC
	Capacity	Up to 192GB
	Slot	4 x DDR5 DIMMs
Network	Port	1 x GbE RJ45 port, 8 x 2.5GbE RJ45 ports, 2 x GbE SFP ports
	Controller	1 x Intel® I210-AT, 8 x Intel® I226, 2 x Intel® I210-AS
	Bypass	4 pairs optional (Gen3), LAN2 ~ LAN3, LAN4 ~ LAN5, LAN6 ~ LAN7, LAN8 ~ LAN9
Storage	HDD	2 x 2.5”/3.5”SATA HDD
	mSATA	1 x mSATA SSD
	M.2	1 x 2280 M.2 (NVMe)
Expansion	NIC Expansion	4 x NIC expansion slots
	PCIe	1 x PCIe 8X expansion slot (x8 signal)
	mini PCIe	1 x mini PCIe
	Wi-Fi/4G/5G	Optional
I/O	Console	1 x RJ45 Console
	USB Interface	Upper: 1 x USB3.0; Lower: 1 x USB3.0
	GPIO	8
Display	Display	1 x HDMI (onboard), 1 x VGA port (optional), supports serial display expansion, 1 x LCM (optional)
Power Input	Power Input	Single power supply as standard, redundant power supplies optional, AC 100~240V, 50~60Hz
TPM	TPM	Supported
Control & Signal	LED	1 x Power LED, 1 x HDD LED, 1 x Custom LED, 4 x Bypass LEDs
	Switch	1 x Power switch
Power Consumption	Typical Power Consumption	Depends on the specific CPU and selected configuration
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	2U rackmount, 440 x 560 x 88 mm (W × D × H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage Temperature: -40°C ~ 70°C; Storage Humidity: 5% ~ 95%, non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC and other standards

NSC-7702

2U Rackmount GAP Appliance, Intel Atom®
Denverton C3000 Series Processor

Mainstream Series



- Onboard Intel Atom® Denverton C3000 Series Processor
- 6 x GbE RJ45 ports, 2 x 10GbE SFP+ ports
- Supports 1-channel NIC network expansion
- DDR4 2133/2400 MHz memory, up to 128GB
- Storage: supports HDD, eMMC and mSATA
- Complies with CE, KC, CCC, FCC and other standards

Item	Parameter	Specification		
Platform	CPU	C3558R (quad-core)	C3758R (octa-core)	Supports Intel® Atom® C3000 series processors
	Base Frequency	2.4GHz	2.4GHz	Depends on the specific CPU
	BIOS	UEFI		
	Chipset	SoC		
RAM	Type	DDR4 2133/2400 MHz, ECC/non-ECC		
	Capacity	Up to 128GB		
	Slot	2 x DDR4 DIMMs		
Network	Port	6 x GbE RJ45 ports, 2 x 10GbE SFP+ ports		
	Controller	1 x Marvell 88E1543, 1 x WX1860A4		
	Bypass	3 pairs optional (Gen3): LAN1~LAN2, LAN3~LAN4, LAN5~LAN6		
Expansion	NIC expansion	1 x NIC expansion slot		
	mini PCIe	1 x mini PCIe		
	PCIe expansion	1 x PCIe 8X slot (x8 signal)		
	Wi-Fi	Optional		
I/O	Console	1 x RJ45 console port (Cisco-compatible pinout), 1 x onboard pin header		
	USB	Upper: 1 x USB2.0, Lower: 1 x USB3.0, 1 x onboard USB2.0 pin header		
	Display	1 x LCM (optional)		
	GPIO	4		
Storage	HDD/SSD	2 x 2.5”/3.5”SATA HDD		
	mSATA	1 x mSATA SSD		
	eMMC	1 x eMMC5.0		
Power Input	Power Input	Dual power supplies as standard, 150 W, single/redundant power supplies optional, AC 100~240V, 50~60Hz		
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 1 x GPIO LED, 3 x Bypass LEDs (optional)		
	Power Switch	1 x Power Switch		
Power Consumption	Typical Power Consumption	60W		
Cooling	Cooling	Air Cool		
Mechanical & Environmental	Dimensions	2U rackmount, 440 x 640 x 88 mm (W x D x H)		
	Operating Temperature	0℃ ~ 40℃		
	Storage Environment	Storage temperature: -40℃ ~ 70℃, Storage humidity: 5% ~ 95%, Non-condensing		
	Packaging	Industrial packaging (customizable)		
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS		
	Software	Provides SDK, DPDK, Driver, BIOS, U-Boot, GPIO, Watchdog, Bypass and more		
Product Certification	Certification	Complies with CE, KC, CCC, FCC and other standards		

NSC-8031

1U Rackmount Network Appliance, Intel® Lewisburg Platform



- Onboard Intel® C621 chipset
- 1st / 2nd Gen Intel® Xeon® Scalable processor
- Supports up to 4 expansion NICs
- DDR4 2133/2400/2666MHz memory, up to 384GB
- Supports CRPS redundant power supplies
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specification
Platform	CPU	1st / 2nd Gen Intel® Xeon® Scalable processor
	BIOS	UEFI
	Chipset	Intel® C621
RAM	Type	DDR4 2133/2400/2666 MHz ECC
	Capacity	Up to 384GB
	Slot	12 x DDR4 RDIMMs
Network	Port	2 x GbE RJ45 ports
	Controller	2 x Intel® I210-AT
	Bypass	Supported via NIC expansion module
Expansion	NIC Expansion	4 x NIC expansion slots
	mini PCIe	2 x mini PCIe
I/O	Console	1 x RJ45 console port (Cisco-compatible pinout), 1 x onboard pin header
	USB	Upper: 1 x USB3.0, lower: 1 x USB3.0, 1 x onboard USB2.0 pin header (supports 2 USB 2.0 ports)
	Display	1 x VGA (optional)
	GPIO	4
Storage	HDD/SSD	1 x 2.5”SATA HDD
	CF Card	1 x CF card slot (mutually exclusive with mSATA)
	mSATA	1 x mSATA SSD (mutually exclusive with CF card)
Power Input	Power Input	Supports CRPS redundant power supplies (standard: 550 W CRPS redundant PSU), AC 100–240 V, 50–60 Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED
	Switch	1 x Power switch
Power Consumption	Typical Power Consumption	Depends on the specific CPU and selected configuration
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	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
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-8E01

1U Rackmount Network Appliance, Intel® Emmitsburg Platform



- Supports single 4th/5th Gen Intel® Xeon® Scalable processor
- Onboard Intel® C741 chipset
- Supports up to 4 PCIe 5.0 expansion NICs
- DDR5 5600MHz, up to 4TB
- Storage: supports HDD, mSATA, M.2
- Complies with CE, KC, CCC, FCC, and other standards

Item	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	Port	2 x GbE RJ45 ports
	Controller	2 x Intel® I210-AT
	Bypass	Supported via NIC expansion module
I/O	Console	1 x RJ45 Console
	USB	Upper: 1 x USB3.0, Lower: 1 x USB3.0
	GPIO	4
Expansion	NIC Expansion	4 x NIC expansion slots
	PCIe Expansion	1 x PCIe 16X expansion slot（x16 signal）
	mini PCIe	1 x mini PCIe
	Wi-Fi/4G/5G	N/A
Storage	HDD/SSD	1 x 2.5" SATA HDD
	M.2	1 x 2280 M.2 (NVMe)
	mSATA	1 x mSATA SSD
TPM	TPM	Supported
Display	Display	1 x VGA (optional)
Power Input	Power Input	CRPS redundant power supplies as standard, 800 W, AC 100~240V, 50~60Hz
Control & Signal	LED	1 x Power LED, 1 x HDD LED
	Button	1 x Power switch
Power Consumption	Typical Power Consumption	Depends on the specific CPU and selected configuration
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	1U rackmount, 440 x 592 x 44.5mm (W x D x H)
	Operating Temperature	0℃ ~ 40℃
	Packaging	Industrial packaging (customizable)
	Storage Environment	Storage temperature: -40℃~70℃, Storage humidity: 5~95%, non-condensing
System & Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-8001

2U Rackmount Network Appliance, Intel® Lewisburg Platform



- Onboard Intel® C621 chipset
- 1st / 2nd Gen Intel® Xeon® Scalable processor
- Supports up to 8 expansion NICs
- DDR4 2133/2400/2666MHz, up to 384GB
- Supports CRPS redundant power supply
- Complies with CE, KC, CCC, FCC and other standards

Item	Parameters	Specifications
Platform	CPU	1st / 2nd Gen Intel® Xeon® Scalable processors
	BIOS	UEFI
	Chipset	Intel® C621
RAM	Type	DDR4 2133/2400/2666 MHz ECC
	Capacity	Up to 384GB
	Slot	12 x DDR4 RDIMMs
Network	Port	2 x GbE RJ45 ports
	Controller	2 x Intel® I210-AT
	Bypass	Supported, expandable via NIC modules
Expansion	NIC Expansion	8 x NIC expansion slots
	PCIe	1 x PCIe 16X expansion slot (x8 signal)
	mini PCIe	2 x mini PCIe
I/O	Console	1 x RJ45 Console (Cisco-compatible), 1 × onboard pin header
	USB	Upper: 1 x USB3.0; Lower: 1 x USB3.0, 1 x USB2.0 onboard header (supports 2 USB 2.0 ports)
	Display	1 x VGA interface (optional), 1 x LCM (optional)
	GPIO	4
Storage	HDD/SSD	2 x 2.5”/3.5”SATA HDD
	CF Card	1 x CF card slot (mutually exclusive with mSATA function)
	mSATA	1 x mSATA SSD（mutually exclusive with CF card function）
Power Input	Power Input	CRPS redundant power supplies as standard, 550 W, AC 100~240V, 50~60Hz
Control & Signal	LED	1 x HDD LED, 1 x Power LED
	Switch	1 x Power switch
Power Consumption	Typical Power Consumption	Depends on the specific CPU and selected configuration
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	2U rackmount, 440 × 560 × 88 mm (W × D × H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage Temperature: -40°C ~ 70°C; Storage Humidity: 5% ~ 95%, non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC and other standards

NSC-8E02

2U Rackmount Network Appliance, Intel® Emmitsburg Platform



- 4th/5th Gen Intel® Xeon® Scalable processor
- Onboard Intel® C741 chipset
- Supports up to 8 expansion NICs
- DDR5 5600MHz memory, up to 4TB
- Storage: supports HDD, mSATA, M.2
- Complies with CE, KC, CCC, FCC and other standards

Item	Parameters	Specifications
Platform	CPU	4th/5th Gen Intel® Xeon® Scalable processors
	BIOS	UEFI
	Chipset	Intel® C741
RAM	Type	DDR5 up to 5600 MHz ECC RDIMM
	Capacity	Up to 4TB
	Slot	16 x DDR5 DIMMs
Network	Port	2 x GbE RJ45 ports
	Controller	2 x Intel® I210-AT
	Bypass	Supported, expandable via NIC modules
I/O	Console	1 x RJ45 Console
	USB	Upper: 1 x USB3.0; Lower: 1 x USB3.0
	GPIO	4
Expansion	NIC Expansion	8 x NIC expansion slots
	PCIe	1 x PCIe 16X expansion slot (x16 signal)
	mini PCIe	1 x mini PCIe
Storage	HDD/SSD	2 x 2.5”/3.5”SATA HDD
	M.2	1 x 2280 M.2 (NVMe)
	mSATA	1 x mSATA SSD
Display	Display	1 x VGA (optional) , 1 x LCM (optional)
Power Input	Power Input	CRPS redundant power supplies as standard, 800 W, AC 100~240V, 50~60Hz
Control & Signal	LED	1 x Power LED, 1 x Status LED
	Button	1 x Power button
	PANEL	1 x PANEL header
Power Consumption	Typical Power Consumption	Depends on the specific CPU and selected configuration
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	2U rackmount, 440 × 592 × 88 mm (W × D × H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage Temperature: -40°C ~ 70°C; Storage Humidity: 5% ~ 95%, non-condensing
	Packaging	Industrial packaging (customizable)
TPM	TPM	Supported
System& Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC and other certification standards

NSC-2UA5

Desktop Network Appliance, ARM-based
Rockchip RK3568 Processor



- ARM-based Rockchip RK3568 quad-core Cortex-A55 64-bit processor
- 1 x GbE RJ45 port, 2 x 2.5GbE RJ45 ports
- Storage: supports eMMC, M.2 storage
- Onboard DDR4 memory, 1 ~ 8GB optional
- Fanless design
- Complies with CE, KC, CCC, FCC, and other standard

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568 (quad-core)
	Base Frequency	Up to 2.0 GHz (default: 1.8 GHz)
	GPU/NPU	NPU：1TOPS
RAM	Type	Onboard DDR4 2400 MHz, non-ECC
	Capacity	1 ~ 8GB (optional)
Network	Port	1 x GbE RJ45 port, 2 x 2.5GbE RJ45 ports
	Controller	1 x RTL8211FS, 2 x Intel® I226-v
Expansion	M.2	N/A
	mini PCIe	N/A
I/O	Console	1 x RJ45 console port (Cisco-compatible pinout), 3 x onboard pin headers
	USB	1 x Type C
	GPIO	N/A
Storage	M.2	1 x 2280 M.2(NVMe)
	eMMC	1 x eMMC 5.1
Encryption	Encryption	N/A
Display	Display	N/A
Power Input	Power Input	Type C power supply
Control & Signal	LED	1 x HDD LED, 1 x Power LED
	Button	1 x Custom button
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	Desktop, 118 x 118 x 30 mm (W x D x H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage temperature: -40℃ ~ 70℃, Storage humidity: 5% ~ 95%,non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-R685

Desktop Network Appliance, ARM-based
Rockchip RK3568 Processor



- ARM-based Rockchip RK3568J quad-core Cortex-A55 64-bit processor
- 4 x GbE RJ45 ports
- Fanless design, rack-mountable
- Onboard DDR4 memory, 1 ~ 8GB optional
- Supports dual 4G/5G, Wi-Fi
- Complies with CE, KC, CCC, FCC, and other standards

Type	Parameter	Specification
Platform	CPU	Rockchip RK3568J (quad-core)
	Base Frequency	Up to 2.0 GHz (default: 1.8 GHz)
	GPU/NPU	NPU：1TOPS
RAM	Type	LPDDR4 2400 MHz, non-ECC
	Capacity	1 ~ 8GB (optional)
	memory	Onboard LPDDR4 memory
Network	Port	4 x GbE RJ45 ports
	Controller	2 x RTL8211FS, 2 x RTL8111H-CG
	Bypass	N/A
I/O	Console	1 x RJ45 Console (Cisco-compatible pinout), 1 x onboard COM pin header
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0 OTG
Expansion	M.2	2 x M.2 slots for 4G/5G modules
	mini PCIe	1 x mini PCIe
	Wi-Fi	Supports Wi-Fi module expansion
	SIM Slot	2 x Micro SIM card slots
Storage	eMMC	1 x eMMC 5.1
	mSATA	1 x mSATA SSD (optional)
	TF	1 x TF(optional)
Power Input	Power Input	Power adapter, AC 100 ~ 240V, 50 ~ 60Hz
Power Consumption	Typical Power Consumption	10W
Cooling	Cooling	Air Cool
TPM	TPM	Supported
Control & Signal	LED	1 x HDD LED, 1 x Power LED, 2 x 4G/5G LEDs, 1 x Wi-Fi LED
	Button	1 x Custom button
Mechanical & Environmen tal	Dimensions	Desktop, 210 x 111.5 x 41 mm (W x D x H)
	Operating Temperature	0℃ ~ 40℃
	Packaging	Industrial packaging (customizable)
	Storage Environment	Storage temperature: -40℃ ~ 70℃, Storage humidity: 5% ~ 95%,non-condensing
System & Software	OS	Support domestic OS, general Linux distributions, customer-specific OS
	Software	Provides SDK, DPDK, Driver, U-Boot, GPIO, Watchdog, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

NSC-90A5

Desktop Network Appliance, Intel® Alder Lake-N / Amston Lake Series Processor



- Onboard Intel® Alder Lake-N/Intel® Atom x7000C series processor
- 6 x 2.5GbE RJ45 ports (4 x PoE+)
- Storage: supports eMMC, M.2
- Fanless design
- Supports 4G/5G and Wi-Fi
- Complies with CE, KC, CCC, FCC, and other standards

Item	Parameter	Specification
Platform	CPU	Intel® Alder Lake-N/Intel® Atom x7000C series processor (default: Intel® N100)
	Base Frequency	Depends on the specific CPU
	BIOS	UEFI
	Chipset	SoC
RAM	Type	DDR5 up to 4800MHz, non-ECC
	Slot	DDR5 SO-DIMM
	Capacity	Up to 32GB
Network	Port	6 x 2.5 GbE RJ45 ports (4 x PoE+)
	Controller	6 x Intel® I226-V
	Bypass	1 pair optional (Gen3), LAN5 ~ LAN6
Expansion	mini PCIe	1 x mini PCIe
	M.2	2 x M.2 slots for 4G/5G modules
	SIM	2 x micro SIM card slots
	4G/5G/Wi-Fi	Supported
PoE	Standard	IEEE 802.3af/802.3at
	Per Port Power	≤ 30W
	Total Power Budget	≤ 120W
I/O	Console	1 x RJ45 / 1 x USB Type-C console port (Cisco-compatible pinout)
	USB	Upper: 1 x USB2.0, Lower: 1 x USB2.0
	GPIO	8
Storage	eMMC	1 x eMMC 5.1
	M.2	1 x 2280 M.2 (NVMe)
Power Input	Power Input	Power adapter, AC 100 ~ 240V, 50 ~ 60Hz
TPM	TPM	Supported
Control & Signal	LED	1 x Power LED, 1 x HDD LED, 2 x Bypass LEDs, 2 x 4G/5G LEDs, 1 x Wi-Fi LED, 4 x PoE LEDs (optional)
	Button	1 x Custom button
Display	Display	1 x HDMI
Power Consumption	Typical Power Consumption	29.7W-32.29W
Cooling	Cooling	Air Cool
Mechanical & Environmental	Dimensions	Desktop, 210 x 150 x 41 mm (W x D x H)
	Operating Temperature	0℃ ~ 40℃
	Storage Environment	Storage temperature: -40℃~70℃, Storage humidity: 5~95%, non-condensing
	Packaging	Industrial packaging (customizable)
System & Software	OS	Supports mainstream Linux distributions, Windows, and customer-specific OS
	Software	Provides SDK, DPDK, Driver, BIOS, GPIO, Watchdog, Bypass, and more
Product Certification	Certification	Complies with CE, KC, CCC, FCC, and other standards

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