"Your version, Our Expertise"

Industrial computers

ESTONE TECHNOLOGY

Estone Tehnology

30+ years

With over 30 years of experience in rugged devices and embedded solutions, we have built a strong global reputation for innovation, reliability, and customization.

200+ people

There are over 200 employees worldwide, with design, engineering, and manufacturing teams across the U.S., Japan, Europe, Vietnam and China.

Global presence

Headquartered in the United States, Estone Technology has offices in Europe, Japan, and China, with manufacturing facilities in Vietnam and China to support worldwide customers.

500+ clients

We have provided our ODM & OEM products and solutions to more than 500 customers worldwide, covering medical, industrial, and commercial applications.

70%

More than 70% of our team is dedicated to technical development, ensuring cutting-edge solutions and strong ODM /OEM capabilities.

Certified Facilities

Our manufacturing plants are ISO 9001, ISO 13485, ISO 14001, and IATF 16949 certified, meeting stringent requirements for medical, industrial, and automotive industries.

At Estone Technology, we are both the engineering house and the factory. From board-level design, mechanical design, software development, assembly, and certi- fications, we provide the complete pathway from concept to market. Tell us your world, and we will design the device to the job. Whether you need a rugged tablet, panel PC/HMI, or even a rugged laptop, we deliver turn-key solutions tailored to your market and application requirements

Healthcare & MedTech

You need devices that tolerate constant cleaning and pass medical safety. We deliver medical-ready tablets/displays with glove/wet touch and IEC 60601 design practe- cies.

- Faster approvals
- Safer, cleaner workflows

Industrial Vehicle

(**Cranes, Forklifts, Ag, Minning, Municipal/ GSE)**

You need 9-48 HMIs that talk CAN and survive shock, vibration, and sun. We deliver vehicle-mount HMIs with CAN/RS-232/485, sunlight-readable screens, MIL-STD-810H design, ignition/ ACC support.

- Clear visibility
- Reliable power/start

Construction & Field Service

You need sunlight-readable, glove-friendly devices with all-day power. We deliver rugged tablets with hot-swap batteries, IP65–IP67 sealing, GNSS.

- Fewer truck rolls
- Faster close-outs

Public Safety & Government

You need rugged, secure tablets for field operations. We deliver MIL-STD aware designs with TPM/secure boot and hot-swap power.

- Mission continuity
- Protected data

Smart Buildings & Facilities

You need slim, PoE wall panels with a clean UI and kiosk-mode security. We deliver panel PCs with PoE, custom UI, and re- mote fleet management.

- Faster installs
- Fewer truck rolls

Defense / C5ISR / Robotics

You need GCS/mission computers with tactile controls and bright dis- plays. We deliver field laptops and rugged controllers/mission computers, with EMI/EMC-minded design, secure UEFI/TPM, sunlight-readable dis- plays, and tactile controls.

- Operator speed
- Lower fatigue

Food & Beverage Equipment Makers

You need wash-down HMIs with your branded UI- and remote support. We deliver sealed panels with custom UX snd phone apps for smart panel control, plus OTA.

- Consistent brand experience
- Fewer service calls

Warehousing & Logistics

You need tablets that scan fast and roam reliably across large sites. We deliver rugged tablets with barcode/ RFID, Wi-Fi6/BT/4G/ 5G, vehicle docks.

- Fewer mis-scans
- Less downtime

Agriculture & Environmental

You need sunlight-readable HMIs with GNSS and ISOBUS/CAN
integration. We deliver CAN-ready HMIs, glove touch, long-range radios, and companion apps.

- Precision control
- Better uptime

Industrial Automation & Machine Builders

You need panel PCs that drop into cabinets, speak PLC/SCADA, and run 24/7. We deliver panel PCs with RS-232/485, Ethernet/PoE, custom bezels/mounts, locked-down OS.

- Easy retrofit
- Stable, Long-life supply

AI Computer

NVIDIA Jetson AGX THOR AI BOX

NPC-7542

At the heart of this product lies the NVIDIA® Jetson AGX THOR module, boasting a peak performance of 2070 TOPS. It can effortlessly handle multiple HD video streams, run complex deep learning models, and perform real-time environmental perception and decision-making. The product is precisely positioned for the AI robotics field. Its design philosophy deeply integrates powerful computing with comprehensive environmental interaction capabilities. This product offers an extensive array of interfaces, with the reliability of its network ports being particularly outstanding. Their unique threaded locking mechanism effectively resists vibration and shock, ensuring a connection that never loosens. Combined with the robust interface design, it ensures stable and long-lasting operation in space-constrained and variable environments typical for mobile robots, significantly improving the Mean Time Between Failures (MTBF) of the entire system.

ESTONE TECHNOLOGY

NVIDIA Jetson AGX THOR AI BOX | NPC-7542	
Processor	12-core Arm® Neoverse®-V3AE 64-bit, 14-core Arm® Neoverse®-V3AE 64-bit
GPU	1536-core NVIDIA Blackwell architecture GPU with 64 fifth-gen Tensor Cores Multi-Instance GPU (MIG) with 6 TPCs, 2560-core NVIDIA Blackwell architecture GPU with 96 fifth-gen Tensor Cores Multi-Instance GPU (MIG) with 10 TPCs
NPU	1200 Sparse FP4 TFLOPs, 600 Sparse/300 Dense FP8 TFLOPs, 2070 Sparse FP4 TFLOPs, 1035 Sparse/500 Dense FP8 TFLOPs
Memory	64GB/128GB
Storage	M.2 M Key 2280 NVMe
OS	Ubuntu24.04 (Jetpack7.0)
Display	NVIDIA Blackwell GPU, Input, 2 x mini Fakra max (up to 8 channels of GMSL2 access), Output, 2 x HDMI2.1, Up to 4096 x 2160 @60Hz
LAN	5 x M12 aviation head, 10/100/1000 MBPS, 2*M12 aviation head (2.5G/5G/10G selectable)
Operating temperature	-25~60”(-13~140 °F) w/ 0.7m/s airflow
USB	4 x USB3.2 Type-A,1 x USB3.2 Type-C
Power Input	9~36V DC IN
Ruggedness	CE / FCC

NVIDIA Jetson AGX THOR AI BOX

NPC-7532

At the heart of this product lies the NVIDIA® Jetson AGX THOR module, boasting a peak performance of 2070 TOPS. It can effortlessly handle multiple HD video streams, run complex deep learning models, and perform real-time environmental perception and decision-making. This product is targeted at the field of artificial intelligence robots, but its design philosophy places greater emphasis on high integration and deployment flexibility. Through refined interface configuration, it achieves structural compactness while maintaining core computing power. It is particularly suitable for robot forms with limited space or as a pure computing unit in the main control system. The interface design of this product has been optimized; it is streamlined yet strikes at the heart of every key requirement. Combined with the robust interface design, it ensures stable and long-lasting operation in space-constrained and variable environments typical for mobile robots, significantly improving the Mean Time Between Failures (MTBF) of the entire system.

ESTONE TECHNOLOGY

NVIDIA Jetson AGX THOR AI BOX | NPC-7532	
Processor	12-core Arm® Neoverse®-V3AE 64-bit, 14-core Arm® Neoverse®-V3AE 64-bit
GPU	1536-core NVIDIA Blackwell architecture GPU with 64 fifth-gen Tensor Cores Multi-Instance GPU (MIG) with 6 TPCs, 2560-core NVIDIA Blackwell architecture GPU with 96 fifth-gen Tensor Cores Multi-Instance GPU (MIG) with 10 TPCs
NPU	1200 Sparse FP4 TFLOPs, 600 Sparse/300 Dense FP8 TFLOPs, 2070 Sparse FP4 TFLOPs, 1035 Sparse/500 Dense FP8 TFLOPs
Memory	64GB/ 128GB
Storage	M.2 M Key 2280 NVMe
Display	NVIDIA Blackwell GPU, Output, 2 x HDMI2.1, Up to 4096 x 2160 @60Hz
OS	Ubuntu24.04 (Jetpack7.0)
LAN	5 x M12 aviation head, 10/100/1000 MBPS, 2*M12 aviation head (2.5G/5G/10G selectable)
USB	4 x USB3.2 Type-A,1 x USB3.2 Type-C
Operating Temperature	-25~60”(-13~140 °F) w/ 0.7m/s airflow
Power Input	9~36V DC IN
Ruggedness	CE/FCC

NVIDIA Jetson AGX THOR AI BOX

NPC-7522

At the heart of this product lies the NVIDIA® Jetson AGX THOR module, boasting a peak performance of 2070 TOPS. It can effortlessly handle multiple HD video streams, run complex deep learning models, and perform real-time environmental perception and decision-making. The product is precisely positioned for the AI robotics field. Its design philosophy deeply integrates powerful computing with comprehensive environmental interaction capabilities. This product offers a rich and versatile interface configuration, ensuring strong connection capabilities and convenient deployment: - Universal network architecture: Equipped with 5 gigabit and 2 optional 10-gigabit (2.5G/5G/10G) standard RJ45 interfaces, compatible with most existing network infrastructures, with convenient wiring and low cost, capable of fully meeting the requirements for high-speed data transmission and equipment networking. The streamlined design not only reduces the complexity of the system but also enhances the overall reliability.

NVIDIA Jetson AGX THOR AI BOX | NPC-7522	
Processor	12-core Arm® Neoverse®-V3AE 64-bit, 14-core Arm® Neoverse®-V3AE 64-bit
GPU	1536-core NVIDIA Blackwell architecture GPU with 64 fifth-gen Tensor Cores Multi-Instance GPU (MIG) with 6 TPCs, 2560-core NVIDIA Blackwell architecture GPU with 96 fifth-gen Tensor Cores Multi-Instance GPU (MIG) with 10 TPCs
NPU	1200 Sparse FP4 TFLOPs, 600 Sparse/300 Dense FP8 TFLOPs, 2070 Sparse FP4 TFLOPs, 1035 Sparse/500 Dense FP8 TFLOPs
Memory	64GB/128GB
Storage	M.2 M Key 2280 NVMe
Display	NVIDIA Blackwell GPU, Input, 2 x mini Fakra max (up to 8 channels of GMSL2 access), Output, 2 x HDMI2.1, Up to 4096 x 2160 @60Hz
OS	Ubuntu24.04 (Jetpack7.0)
LAN	5 x RJ45, 10/100/1000 MBPS; 2 x RJ45 (2.5G/5G/10G optional)
USB	4 x USB3.2 Type-A,1 x USB3.2 Type-C
Power Input	9~36V DC IN
Operating Temperature	-25~60℃ (-13~140 °F) w/ 0.7m/s airflow
Ruggedness	CE/FCC

ESTONE TECHNOLOGY

NVIDIA Jetson AGX THOR AI BOX

NPC-7512

At the heart of this product lies the NVIDIA® Jetson AGX THOR module, boasting a peak performance of 2070 TOPS. It can effortlessly handle multiple HD video streams, run complex deep learning models, and perform real-time environmental perception and decision-making. This product is targeted at the field of artificial intelligence robots, but its design philosophy places greater emphasis on high integration and deployment flexibility. Network Connectivity: Equipped with 1 Gigabit RJ45 and 2 optional 10-Gigabit RJ45 ports (2.5G/5G/10G selectable) to meet high-speed data transmission requirements. Expansion Capability: 4 USB 3.2 Type-A and 1 Type-C ports provide sufficient peripheral connection capacity. Wireless Communication: Integrated WiFi 5/6 and 4G/5G modules ensure stable device connectivity in various environments. The streamlined design not only reduces the complexity of the system but also enhances the overall reliability.

ESTONE TECHNOLOGY

NVIDIA Jetson AGX THOR AI BOX | NPC-7512	
Processor	12-core Arm® Neoverse®-V3AE 64-bit, 14-core Arm® Neoverse®-V3AE 64-bit
GPU	1536-core NVIDIA Blackwell architecture GPU with 64 fifth-gen Tensor Cores Multi-Instance GPU (MIG) with 6 TPCs, 2560-core NVIDIA Blackwell architecture GPU with 96 fifth-gen Tensor Cores Multi-Instance GPU (MIG) with 10 TPCs
NPU	1200 Sparse FP4 TFLOPs, 600 Sparse/300 Dense FP8 TFLOPs, 2070 Sparse FP4 TFLOPs, 1035 Sparse/500 Dense FP8 TFLOPs
Memory	64GB/128GB
Storage	M.2 M Key 2280 NVMe
OS Support	Ubuntu24.04 (Jetpack7.0)
Display	NVIDIA Blackwell GPU, Output, 2 x HDMI2.1, Up to 4096 x 2160 @60Hz
LAN	1 x RJ45, 10/100/1000Mbps, 2 x RJ45 (2.5G/5G/10G optional)
Watchdog	255 levels of programmable seconds per minute
USB	4 x USB3.2 Type-A,1 x USB3.2 Type-C
Operating temperature	-25~60°C (-13~140 °F) w/ 0.7m/s air-flow
Power input	9~36V DC IN
Ruggedness	CE/FCC

NVIDIA Jetson Orin Nano/NX SPUER

NPC-7412

The core of this product is the NVIDIA® Jetson Orin series processor, whose outstanding performance sets a new standard for edge AI tasks. We are well-aware of the significance of connectivity and thus have equipped this module with an extremely comprehensive and industrial-grade I/O interface to meet the integration requirements of various complex scenarios. With its powerful performance and comprehensive interfaces, this core module is an ideal choice for numerous artificial intelligence applications, especially in the fields of AI PCS and edge AI. Next-generation AI PCS and smart terminals: As the core of AI PCS, smart interaction all-in-one machines, and AI acceleration boxes, they empower cutting-edge functions. The streamlined design not only reduces the complexity of the system but also enhances the overall reliability.

NVIDIA Jetson Orin Nano/NX SPUER| NPC-7412	
AI Platform	Orin Nano Super, Orin NX Super
CPU	6-core A78AE 1.7 GHz, 6-core A78AE 2.0 GHz, 8-core A78AE 2.0 GHz
GPU	NVIDIA Ampere GPU
NPU	None, 1x DLA v2, 2x DLA v2
Memory	4GB, 8GB, 16GB
Storage	1 x 256G SSD (512G/1T)
Display	1 x HDMI2.1, Up to 4096 x 2160 @60Hz
OS	Ubuntu22.04 (Jetpack6.2)
LAN	2 x RJ45, 10/100/1000Mbps
USB	3 x USB3.0 Type-A, 1 x USB3.0 Type-C(Support OTG)
Expansion Card	1 x WiFi5/6 (support station/AP mode), 1 x 4G/5G
Watchdog	1~255 levels of programmable seconds or minute
Power input	DC 9~36V
Operating temperature	-25~60 °C (-13~140 °F) w/ 0.7m/s airflow
Ruggedness	CE/FCC

ESTONE TECHNOLOGY

NVIDIA Jetson Orin Nano/NX SPUER

NPC-7422

The core of this product is the NVIDIA® Jetson Orin series processor, whose outstanding performance sets a new standard for edge AI tasks. This interface design is intended to meet the most complex and demanding multi-sensor fusion and industrial integration requirements, providing a bottleneck-free data channel for the powerful computing power of the core module. With its powerful performance and comprehensive interfaces, this core module is an ideal choice for numerous artificial intelligence applications, especially in the fields of AI PCS and edge AI. Next-generation AI PCS and smart terminals: As the core of AI PCS, smart interaction all-in-one machines, and AI acceleration boxes, they empower cutting-edge functions. The streamlined design not only reduces the complexity of the system but also enhances the overall reliability.

NVIDIA Jetson Orin Nano/NX SPUER| NPC-7422	
AI Platform	Orin Nano Super, Orin NX Super
CPU	6-core A78AE 1.7 GHz, 6-core A78AE 2.0 GHz, 8-core A78AE 2.0 GHz
GPU	NVIDIA Ampere GPU
NPU	None, 1x DLA v2, 2x DLA v2
Memory	4GB, 8GB, 16GB
Storage	1 x 256G SSD (512G/1T)
OS	Ubuntu22.04 (Jetpack6.2)
LAN	6 x RJ45, 10/100/1000Mbps (one with POE)
USB	3 x USB3.0 Type-A, 1 x USB3.0 Type-C(Support OTG)
Watchdog	1~255 levels of programmable seconds or minute
Operating temperature	-25~60 °C (-13~140 °F) w/ 0.7m/s airflow
Power input	DC 9~36V
Ruggedness	CE/FCC

ESTONE TECHNOLOGY

NVIDIA Jetson Orin Nano/NX SPUER

NPC-7432

The core of this product is the NVIDIA® Jetson Orin series processor, whose outstanding performance sets a new standard for edge AI tasks. We are aware of the significance of connectivity and thus have equipped this module with an extremely comprehensive and industrial-grade I/O interface to meet the integration requirements of various complex scenarios. With its powerful performance and comprehensive interfaces, this core module is an ideal choice for numerous artificial intelligence applications, especially in the fields of AI PCS and edge AI. Next-generation AI PCS and smart terminals: As the core of AI PCS, smart interaction all-in-one machines, and AI acceleration boxes, they empower cutting-edge functions. The streamlined design not only reduces the complexity of the system but also enhances the overall reliability.

NVIDIA Jetson Orin Nano/NX SPUER| NPC-7432	
AI Platform	Orin Nano Super, Orin NX Super
CPU	6-core A78AE 1.7 GHz, 6-core A78AE 2.0 GHz, 8-core A78AE 2.0 GHz
GPU	NVIDIA Ampere GPU
NPU	None, 1x DLA v2, 2x DLA v2
Memory	4GB, 8GB, 16GB
Storage	1 x 256G SSD (512G/1T)
OS	Ubuntu22.04 (Jetpack6.2)
Extension card	1 x WiFi5/6 (support station/AP mode), 1 x 4G/5G
LAN	2 x M12 Aviation Plug,10/100/1000Mbps
USB	3 x USB3.0 Type-A, 1 x USB3.0 Type-C(Support OTG)
Watchdog	1~255 levels of programmable seconds or minute
Power input	DC 9~36V
Operating temperature	-25~60 °C (-13~140 °F) w/ 0.7m/s airflow
Ruggedness	CE/FCC

ESTONE TECHNOLOGY

NVIDIA Jetson Orin Nano/NX SPUER

NPC-7442

The core of this product is the NVIDIA® Jetson Orin series processor, whose outstanding performance sets a new standard for edge AI tasks. This interface design is intended to meet the most complex and demanding multi-sensor fusion and industrial integration requirements, providing a bottleneck-free data channel for the powerful computing power of the core module. With its powerful performance and comprehensive interfaces, this core module is an ideal choice for numerous artificial intelligence applications, especially in the fields of AI PCS and edge AI. Next-generation AI PCS and smart terminals: As the core of AI PCS, smart interaction all-in-one machines, and AI acceleration boxes, they empower cutting-edge functions. The streamlined design not only reduces the complexity of the system but also enhances the overall reliability.

NVIDIA Jetson Orin Nano/NX SPUER| NPC-7442	
AI Platform	Orin Nano Super, Orin NX Super
CPU	6-core A78AE 1.7 GHz, 6-core A78AE 2.0 GHz, 8-core A78AE 2.0 GHz
GPU	NVIDIA Ampere GPU
NPU	None, 1x DLA v2, 2x DLA v2
Memory	4GB, 8GB, 16GB
Storage	1 x 256G SSD (512G/1T)
OS	Ubuntu22.04 (Jetpack6.2)
LAN	6 x M12 Aviation Plug, 10/100/1000Mbps (one with POE)
Extension card	1 x WiFi5/6 (support station/AP mode), 1 x 4G/5G
USB	3 x USB3.0 Type-A, 1 x USB3.0 Type-C(Support OTG)
Watchdog	1~255 levels of programmable seconds or minute
Power input	DC 9~36V
Operating tem-perature	-25~60 °C(-13~140 °F) w/ 0.7m/s airflow
Ruggedness	CE/FCC

ESTONE TECHNOLOGY

NVIDIA Jetson Orin Nano Arm-based Edge AI BOX

NPC-7112

The NVIDIA Jetson Orin Nano-powered computing platform delivers powerful edge AI capabilities in a compact, rugged design for industrial robotics and automation. Built on Ampere architecture with a 6-core ARM Cortex-A78AE CPU and 512 CUDA cores, it provides up to 40 TOPS of AI computing power for efficient neural network inference and real-time processing. The platform features comprehensive interfaces including USB 3.0/2.0 ports, RS-232/485 serial ports, CAN bus, and digital I/O terminals for seamless sensor and equipment integration. Measuring just 187mm x 131mm x 54mm, it fits space-constrained environments while maintaining performance through active cooling with intelligent airflow design that ensures stable operation under high loads. Rigorously tested to IEC 60068-2-64 and IEC 60068-2-27 standards for vibration and shock resistance, with CE and FCC Class B certifications, this platform is ideally suited for collaborative robots, intelligent drones, quality inspection systems, and demanding edge AI deployments requiring reliable all-weather industrial operation.

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NVIDIA Jetson Orin Nano Arm-based Edge AI BOX NPC-7112	
Processor	NVIDIA Jetson Orin Nano 4GB/8GB
GPU	Ampere,512 CUDA,16 Tenso Cores,625Mhz Ampere,1024 CUDA,32 Tensor Cores,625Mhz
CPU	6-core Arm® Cortex®-A78"1.5Ghz
Neural Network Acceleration	1x NVDLA v2 for accelerating deep learning workloads 2x NVDLA v2 for accelerating deep learning work- loads
Memory	On-board 4GB 128-bit LPDDR5 On-board 8GB 128-bit LPDDR5
Storage	1x M.2 2280 (PCIe x4) for NVMe SSD 1x Micro SD slot
OS	Ubuntu 20.04 + JetPack 5.1.2
USB	1x USB 3.0 Type-C, 2x USB 3.0 Type-A, 2x USB 2.0 Type-A
Watchdog	Watchdog Timer & power on/off management
Communications	Wi-Fi, 5G/4G, LoRa
Power input	12V DC-IN
Operating temperature	0~60 ° C(32~140 °F)/-20~70°C (-4~158 °F) optional
Ruggedness	CCC, CE Class B

NVIDIA Jetson Orin NX Arm-based Edge AI BOX

NPC-7212

The NVIDIA Jetson Orin NX-powered computing platform delivers exceptional edge AI performance in a compact, industrial-grade design for intelligent robotics and autonomous systems. Built on Ampere architecture with an 8-core ARM Cortex-A78AE CPU and 1024 CUDA cores, it provides up to 100 TOPS of AI computing power—five times faster than the previous Xavier NX generation—while maintaining efficient 15W to 25W power consumption with up to 16GB LPDDR5 memory. The platform offers comprehensive connectivity including USB 3.0/2.0 ports, RS-232/485 serial ports, CAN bus, and multi-channel digital I/O for seamless sensor and industrial equipment integration. Measuring 187mm x 131mm x 54mm, it combines high integration with an active cooling system featuring performance fans and multi-layer heat sinks that ensure stable operation under sustained loads with low noise levels. Rigorously tested to IEC 60068-2-64 and IEC 60068-2-27 standards for vibration and shock resistance, with CE and FCC Class B certifications, this rugged platform is ideally suited for drones, industrial automation, smart cameras, medical devices, and demanding edge AI applications requiring reliable all-weather operation in harsh industrial environments.

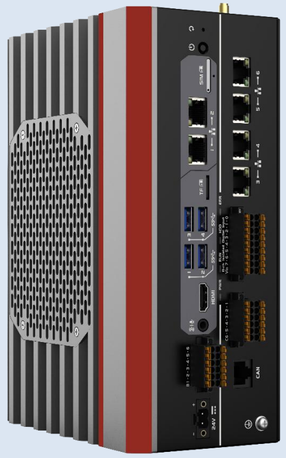
NVIDIA Jetson Orin NX Arm-based Edge AI BOX | NPC-7212	
AI Platform	NVIDIA Jetson Orin NX 8GB/16GB
GPU	6-core Arm Cortex-A78 v8.2 64-bit CPU 8-core Arm Cortex-A78 v8.2 64-bit CPU
Neural Network Acceleration	1x NVDLA v2 for accelerating deep learning work-loads 2x NVDLA v2 for accelerating deep learning work- loads
Memory	On-board 8GB 128-bit LPDDR5 On-board 16GB 128-bit LPDDR5
Storage	On-board 8GB 128-bit LPDDR5 On-board 16GB 128-bit LPDDR5
OS	Ubuntu 20.04 + JetPack 5.1.2
LAN	Dual GbE LAN for camera connectivity
USB	1x USB 3.0 Type-C, 2x USB 3.0 Type-A, 2x USB 2.0 Type-A
Watchdog	Watchdog Timer & power on/off management
Power input	12V DC-IN
Communications	Wi-Fi, 5G/4G, LoRa
Operating Temperature	0~60 ° C(32~140 °F)/-20~70 ° C(-4~158 °) optional
Ruggedness	CCC, CE Class B

ESTONE TECHNOLOGY

NVIDIA Jetson AGX Orin AI Machine Vision Controller

NPC-7312

The NVIDIA Jetson AGX Orin-powered computing platform represents flagship-level edge AI performance for autonomous systems and intelligent robotics. Built on Ampere architecture with a 12-core ARM Cortex-A78AE CPU and 2048 CUDA cores, it delivers up to 275 TOPS of AI computing power for demanding multi-sensor fusion and real-time decision-making in autonomous driving, smart cities, and industrial applications. The platform features comprehensive connectivity including 4 USB 3.0 Type-A ports, RS-232/485 serial ports, CAN bus, and notably 6 independent Gigabit Ethernet ports for parallel multi-device communication and large-scale data throughput in distributed AI computing scenarios. Measuring 230 x 165 x 91.5mm, its compact industrial design integrates advanced three-dimensional airflow architecture with high-performance fans and multi-layer heat sinks to ensure stable operation under sustained high loads. Rigorously tested to IEC 60068-2-64 and IEC 60068-2-27 standards for vibration and shock resistance, with CE and FCC Class A certification, this rugged platform is compatible with NVIDIA Isaac and JetPack SDKs, providing full-stack development support for end-to-end AI deployment in intelligent manufacturing, edge servers, and mission-critical autonomous systems requiring maximum computing density and reliability.



NVIDIA Jetson AGX Orin AI Machine Vision Con- troller | NPC-7312	
Processor	8/12 Cores A78AE 2.2GHz
Chipset	NVIDIA Jetson AGX Orin
SIO	NVIDIA Ampere, VRAM 32/64GB, 275/200 TOPS 2048/1792 CUDA Cores, 64/56 Tensor Cores
Memory	32/64 GB
Storage de- vice	64GB eMMC 1 x M.2 2280 (M-Key, NVMe, Signal: PCIe x4) 1 x Micro SD
OS	Ubuntu 20.04
LAN	2 x 10/100/1000 Mbps 4 x 10/100/1000 Mbps
USB	4 x USB3.0 Type-A
Watchdog	1 to 255 sec./min. per step
Graphic Processor	NVIDIA Ampere GPU
Power input	9~36V DC IN
Operating Temperature	-25~60 ° C(-13~140 °F) with 0.7m/s airflow
Ruggedness	IEC 60068-2-27, IEC 60068-2-64

ESTONE TECHNOLOGY

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