



FEATURES

- Embedded with NVIDIA® Jetson AGX Orin™ module, delivering up to 275 TOPS.
- Provide 4 PoE and 4 USB 3.2 Gen 2, supporting up to 8 cameras.
- Fanless design with a compact size of 175(W) x 145(D) x 85(H) mm.
- Support Linux® Ubuntu 22.04 and Jetpack 6.0.
- Built-in Out-of-Band (OOB) module for remote device control.
- Seamless integration of Isaac™ Perceptor technologies.
- System SKU available for purchase.

JN-12003	
AI PERFORMANCE	275TOPS
DIMENSIONS (W x D x H)	175(W) x 145(D) x 85(H) mm
GPU	2048-core NVIDIA Ampere GPU with 64 Tensor Cores
CPU	12-core Arm® Cortex®-A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3
RAM	64GB 256-bit LPDDR5
HDMI	1x HDMI (Max. resolution 3840x2160 @ 60Hz)
USB	4x USB 3.2 Gen2 Type-A, 1x USB 3.2 Gen2 Type-C (OTG)
ETHERNET	4x 10/100/1000Mbps Ethernets (Optional PoE support, IEEE 802.3af/at)
STORAGE	64GB eMMC 5.1
M.2	1x M.2 M key 2242 and 2280 PCIe Gen4 1x M.2 B key 3042 and 3052 for 5G/LTE M.2 E key 2230 for Wifi
SD CARD	1x MicroSD Slot
OUT-OF-BAND (OOB)	Support Ethernet and Wifi, monitoring and managing at remote locations (thermal sensor, remote power on/off, restart, monitor debug port detection device status.)
SERIAL PORT	1x COM RS-232/RS-422/RS-485 (DB9)
CAN BUS	1x 2.0b, isolated (DB9)
BUTTON	1x power, 1x reset, 1x recovery
OS	Linux® Ubuntu
AUDIO	Mic-in (Mono), Line-out (Stereo)
I/O CONNECTOR	2x D-sub 26-pin connector (GPIO, I2C, SPI) provide cable for expansion
LED	6x user defined LEDs
WDT	WDT supported
THERMAL SENSOR	1x Thermal sensor
POWER SWITCH	1x Power ON/OFF Button (AT/ATX, Default: AT)
DC/AC INPUT	24V, 160 up to 220W power adapter
OPERATING TEMPERATURE	-20°C to 55°C
STORAGE TEMPERATURE	-40°C to 85°C
HUMIDITY	~95% @40°C (non-condensing, optional with fanless solution)
CERTIFICATIONS	CE, FCC
WARRANTY	1 Year