

HardEdge -Athos

PNY®



AI Embedded System for NVIDIA® Jetson™ Modules



Features

- Compatible with NVIDIA® Jetson Xavier NX™ module
- All-in-one design in compact form factor
- Expansion slots for 5G/4G/WIFI/Storage functions
- Suitable for AIoT gateways, general AI applications



Specifications

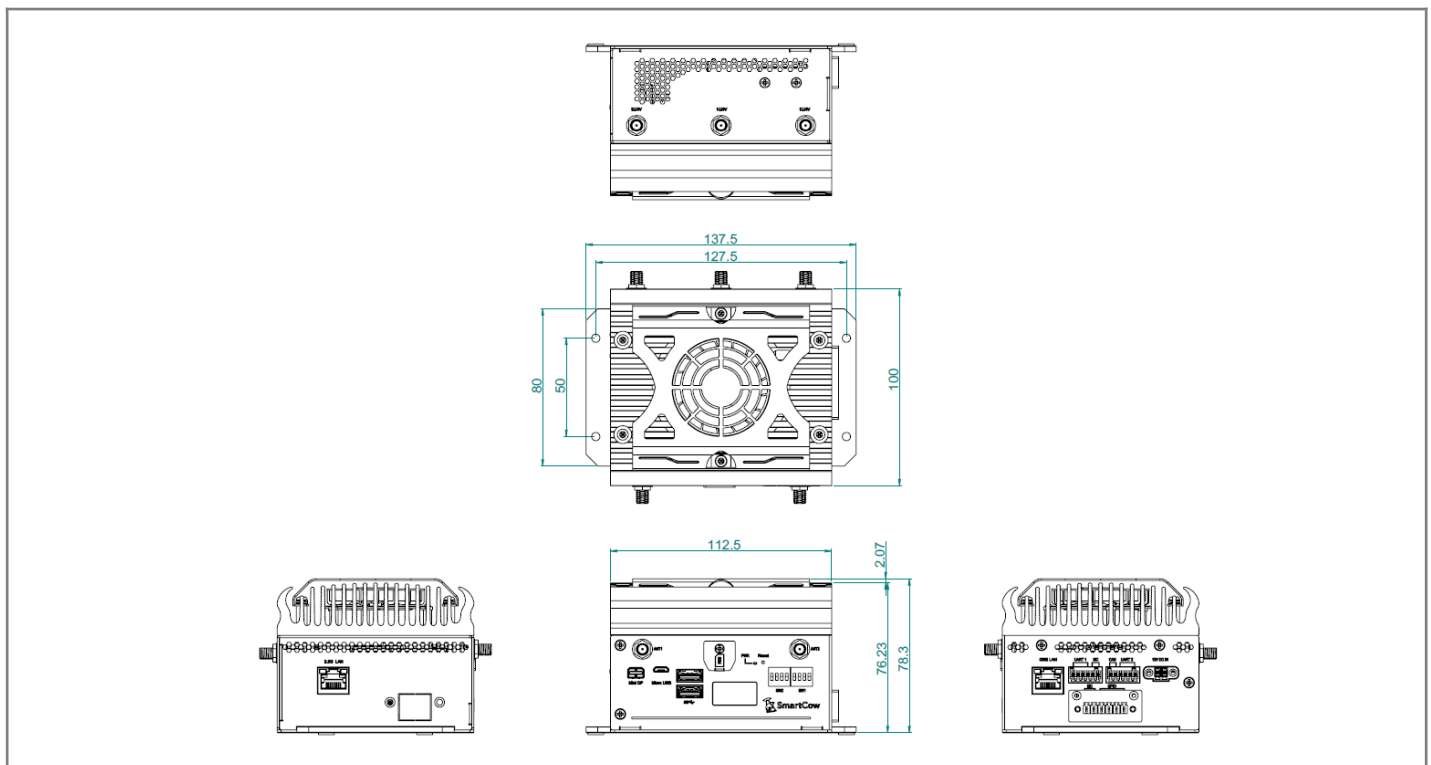
NVIDIA® Jetson Xavier™ NX	Xavier NX 16GB	CPU	6-core NVIDIA Carmel ARM®v8.2 64-bit CPU 6MB L2 + 4MB L3 processor
		GPU	NVIDIA Volta™ architecture with 384 NVIDIA CUDA® cores and 48 Tensor cores
		Memory	16 GB 128-bit LPDDR4x @ 59.7GB/s
		Storage	16 GB eMMC 5.1
General	Storage		1TB NVMe SSD
	BSP		Jetpack 5.0.2
	Power input		12V DC input with 2-pin terminal block
	Certification		CE, FCC
External I/O	Display		1x mini DP 1x 0.96" OLED
	Ethernet		1x RJ45 LAN for OOB 1x RJ45 GbE LAN (10/100/1000M) 1x RJ45 GbE LAN (2.5G) ^[1]
	USB		2x USB3.1 Gen2 (Type A) 1x USB2.0 OTG (Micro USB)
	GPIO		3x GPIOs
	Communication		2x I ² C 1x CAN bus
	Serial Port		2x RS232 or RS485
	DIP Switch		2x DIP switch (4 pins) for RS232/RS485 configuration
	SMA (Male)		5x SMA connectors for WWAN/WiFi/GNSS antenna
	LED indicator		1x Power status
	Button		1x Reset button
	SIM Slot		1x Nano SIM slot

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Internal I/O	USB	1x USB3.1 pin header
	SPI	1x SPI for OLED
	Recovery / Debug	1x Pin header for recovery function (LED, Power, Reset Button, Recovery, AT/ATX mode, debug UART)
	Audio	1x I ² S
	CSI	2x FFC connector (optional)
	Fan function	1x GPU fan connector
Expansion	Expansion slot	1x M.2 B-key 3042/3052 (support selected 4G or 5G modules) 1x M.2 E-key 2230 (support selected WiFi modules) ^[1]
	SIM Card	1x Nano SIM slot
Environment	Operating Temp	-20°C ~+60°C
	Storage Temp	-40°C ~+85°C
	Storage Humidity	5% ~ 95% RH (non-condensing)
Mechanical	Dimension	137.5x100x78.3 mm (L x W x H) (with wall mount bracket)
	Weight	0.8kg
	Installation	Wall mount

[1] 2.5G LAN and M.2 E-key is selected by a jumper, system default with 2.5G LAN enabled, M.2 E-key disabled.

Mechanical





Ordering Information

Model Name	Description
PNYHEATHXNX16OOB-202	AI Embedded system with Jetson Xavier NX 16G module and OOB function, 1TB NVMe SSD, 12V DC in
	Power Adapter, DC 12V/5A, terminal block
	EU Power Cord

