Uranus

PNY | **SmartCow®**
An AI Engineering Company

AI Embedded System for NVIDIA Jetson™ Modules

Features

- Compatible with Jetson NX, TX2 NX, Nano modules
- All-in-one design in compact form factor
- Expansion slots for 4G/WIFI/Storage functions
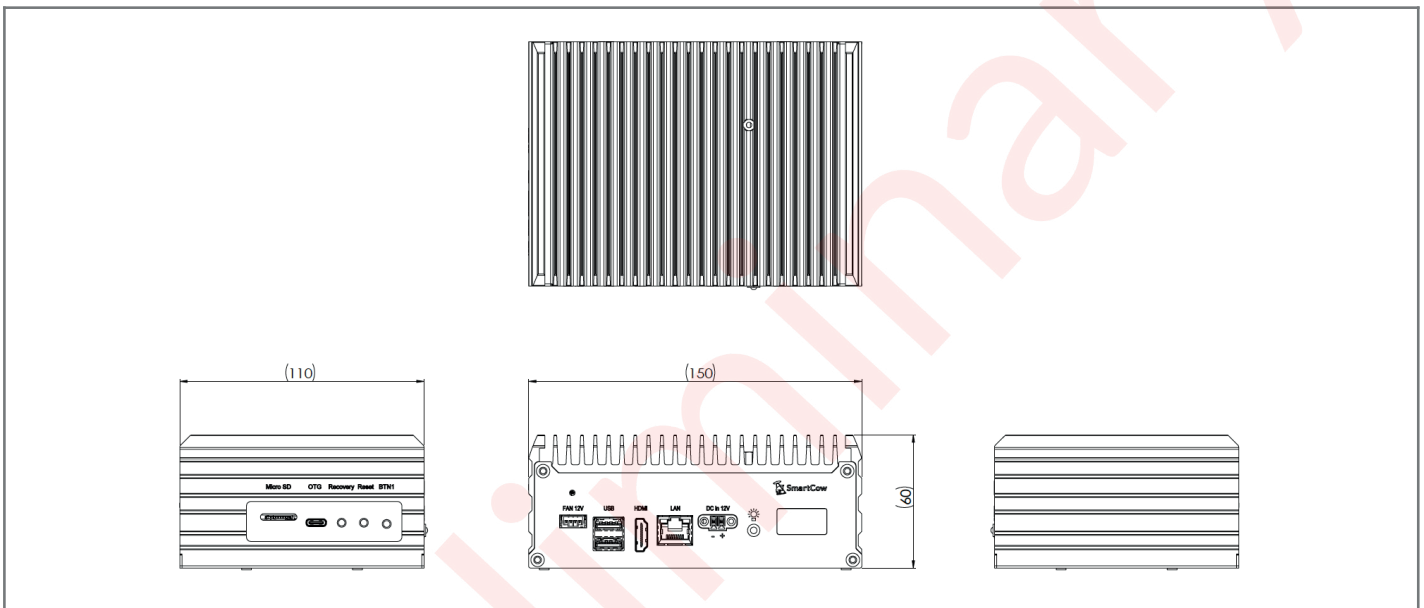- Suitable for AIoT gateways, general AI applications

NVIDIA PREFERRED PARTNER   FC   CE

Specifications

General	BSP	Jetpack 4.6.2
	Power input	12V DC input with 2-pin Terminal block
	Certification	CE, FCC
Physical I/O	Display	1x HDMI 2.0 Type A 1x 0.96" OLED
	Ethernet	1x RJ45 GbE (10/100/1000)
	Tact Switch	1x Recovery 1x Reset 1x GPIO
	USB	2x USB3.2 Gen1 Type A 1x USB2.0 Type C (OTG only)
	SD Card	1x Micro SD
	4-pin header	1x Fan connector
Expansion	Expansion slot	1x Mini PCIe (USB2.0/SATA/PCIe) (full size/half size)
	SIM Card	1x Nano SIM slot
Environment	Operating Temp	-25°C ~+60°C
	Storage Temp	-40°C ~+85°C
	Storage Humidity	95% @ 40 °C (non-condensing)
Mechanical	Dimension	150x110x60 mm
	Weight	TBD
	Installation	Wall mount

Compatible Jetson Module

	Xavier NX 16GB	TX2 NX	Nano
CPU	6-core NVIDIA Carmel ARM®v8.2 64-bit CPU 6MB L2 + 4MB L3 processor	Dual-Core NVIDIA Denver 2 64-Bit CPU and Quad-Core Arm® Cortex®-A57 MPCore processor	Quad-core ARM Cortex-A57 MPCore processor
GPU	NVIDIA Volta™ architecture with 384 NVIDIA CUDA® cores and 48 Tensor cores	NVIDIA Pascal™ Architecture GPU with 256 CUDA cores	NVIDIA Maxwell architecture with 128 NVIDIA CUDA cores
Memory	16 GB 128-bit LPDDR4x @ 59.7GB/s	4GB 128-bit LPDDR4 @ 51.2 GBs	4 GB 64-bit LPDDR4 @25.6 GB/s
Storage	16 GB eMMC 5.1		

Mechanical

Ordering Information

Part Number	NVIDIA Module
HAEG-US1WNN	- Xavier NX 16G
HAEG-US1TNN	- TX2 NX
HAEG-US1ANN	- Nano

Packing List

Item	Description	Qty
Power Adapter	- DC 12V/5A, Terminal block	1
Screw	- Mini PCIe Screw	2
Standoff	- Mini PCIe Standoff	2

Accessories (Optional)

Part Number	Description
1Y0701800200LI	- US Power Cord
1Y0701800100LI	- EU Power Cord
51-U0000000004	- Quectel EP06 Series (LTE Cat.6)
	- LTE Antenna and Coaxial cable
51-U0000000000	- mSATA 128G
51-U0000000005	- JJPlus WIFI module
	- WIFI Antenna and Coaxial cable
	- Fan Kit

ADVANCED INTEGRATION