



5 Power Speed up 5G Edge AIoT

Supercharge 5G Era with Jetson Edge AI Solution **AN810-XNX**

5G technology hit the world with its novel and innovative abilities. It has become a sensation in IoT applications.

The AN810-XNX combines the NVIDIA® Jetson Xavier™ NX and Aetina brand new AN810 carrier board in a Nano-ITX form factor at as low power consumption as 15W for operation. AN810-XNX features prospective communication capabilities, throughout integration with the 4G/5G module beforehand and an onboard SIM slot, building seamless high-speed wireless connection and data transferring for edge devices. AN810-XNX supports full M.2 slot with M-key, E-key, and B-key and the interface with PCIe/SATA/USB 3.2 Gen2/USB 2.0. For better management of numerous edge devices, AN810-XNX supports the Innodisk InnoAGE™ out-of-band management SSD solution through M.2. With this solution, it reduces the massive cost of manually repairing the edge device and primarily minimizes the equipment's downtime, making the remote-control of the edge device more convenient. With the widespread use of vision AI application, AN810-XNX supports the single 120-pin connector for MIPI CSI-2 interface. It can handle intensive AI workloads ultra-high-resolution cameras to more accurate image analysis.

I/O EXPANDABILITY

- AVL & pre-verified I/O modules
- Preloaded driver or API

DEVICE MANAGEMENT

- Remotely recovery even when system crashed
- Conducted in-band & OOB management

AI COMPUTING

- Powered by Jetson Xavier™ NX SoM
- Driven up to 21 TOPs computing performance

5G COMMUNICATION

- Fully support M.2 interface for expansion
- Various 5G/4G/LTE modules as option in AVL

VISUAL ANALYTICS

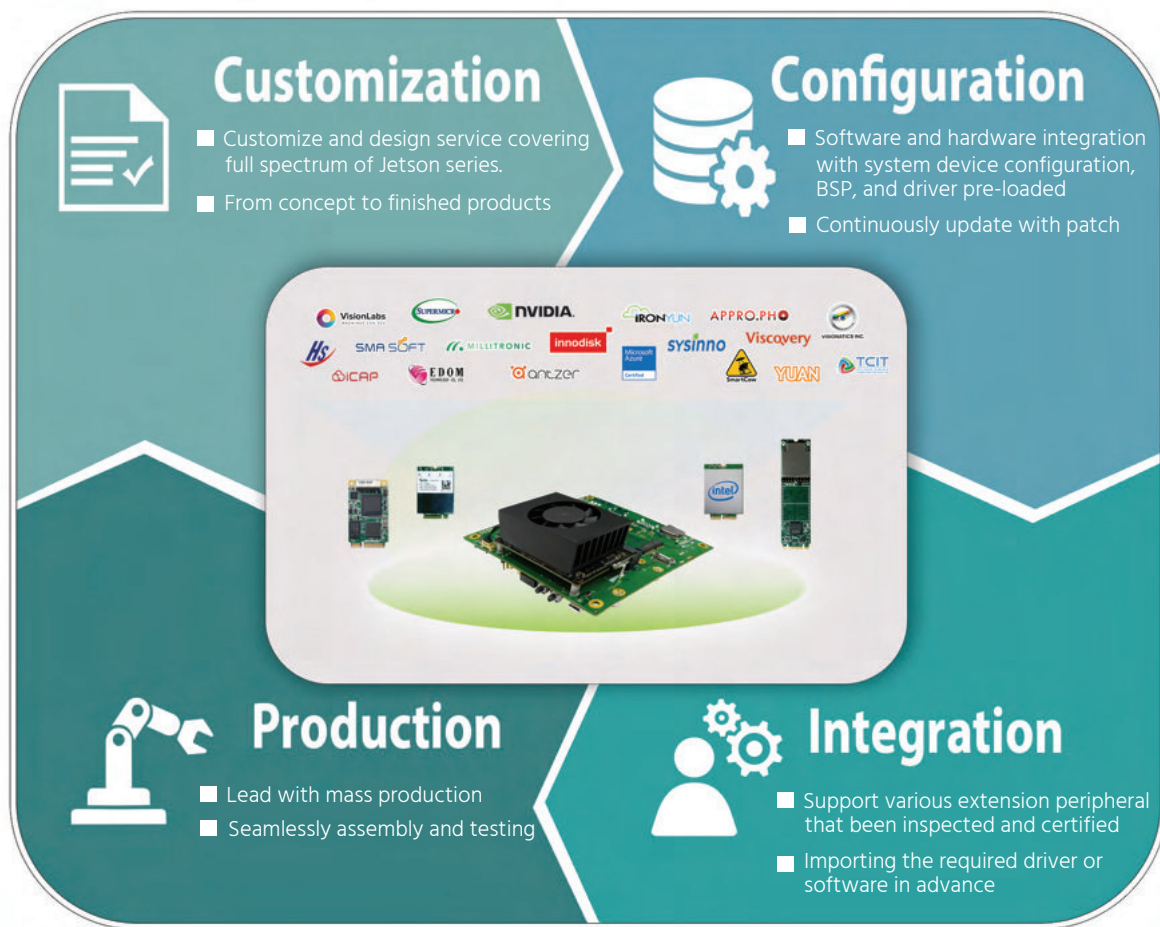
- Compliance to MIPI CSI-II interface
- Integrated with VID module and camera



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Specification

AN810-XXN

Processor	NVIDIA® Jetson Xavier™ NX CPU : 6-core NVIDIA Carmel ARM® v8.2 , 64-bit CPU 6MB L2 + 4MB L3 GPU : 384 NVIDIA Volta™ architecture CUDA cores and 48 Tensor cores
Floating Points	14 TOPS (INT8) 10W 21 TOPS (INT8) 15W
Memory	8 GB LPDDR4x , 128-bit
Mass Storage	16 GB eMMC 5.1
Storage	1x Micro SD card slot
Networking	10/100/1000 BASE-T Ethernet
Video Output	1x HDMI Type A
LAN	1x RJ-45 for GbE
USB	2x USB3.2 Gen1 Type A ¹ 1x USB2.0 Micro AB (OTG Only)
Expansion Slot	1x M.2 M Key 2280(Pcie x4 / SATA) 1x M.2 E Key 2230(USB2.0/PCle x1) 1x M.2 B Key 3050 (USB3.2 Gen2) 1x 120-pins Connector for MIPI CSI-2 1x SIM Slot
Others	1x Fron Panel 3x I2C 1x SPI 1x System Control (PWR and RST buttons) 5x GPIO 1x CAN 2x UART
Dimensions	120 x 120 mm
Power Requirements	Wide Input + 12 to +19V DC
Operating Temperature	-20 to +70°C
Storage Temperature	-40 to +85°C



1. Downgrade to USB2.0 when install M.2 B key device
2. Product Specifications are subject to change without prior notice