

VPP6N0-S NX OOB MK.2

Remote OOB Device Management Turnkey Solution

YUAN
Visualize Intelligent Planet

Features

- OOB Connection via Wi-Fi / 4G / RJ45
- Up to 100 TOPS AI Performance
- 2xM.2 M Key, Gen 4x4 / Gen 4x1
- Fanless Design
- 4xUSB3.2 Gen2, and RS232 / RS485 / I²C
- Support OOB Cloud Serial Console



AIIXON



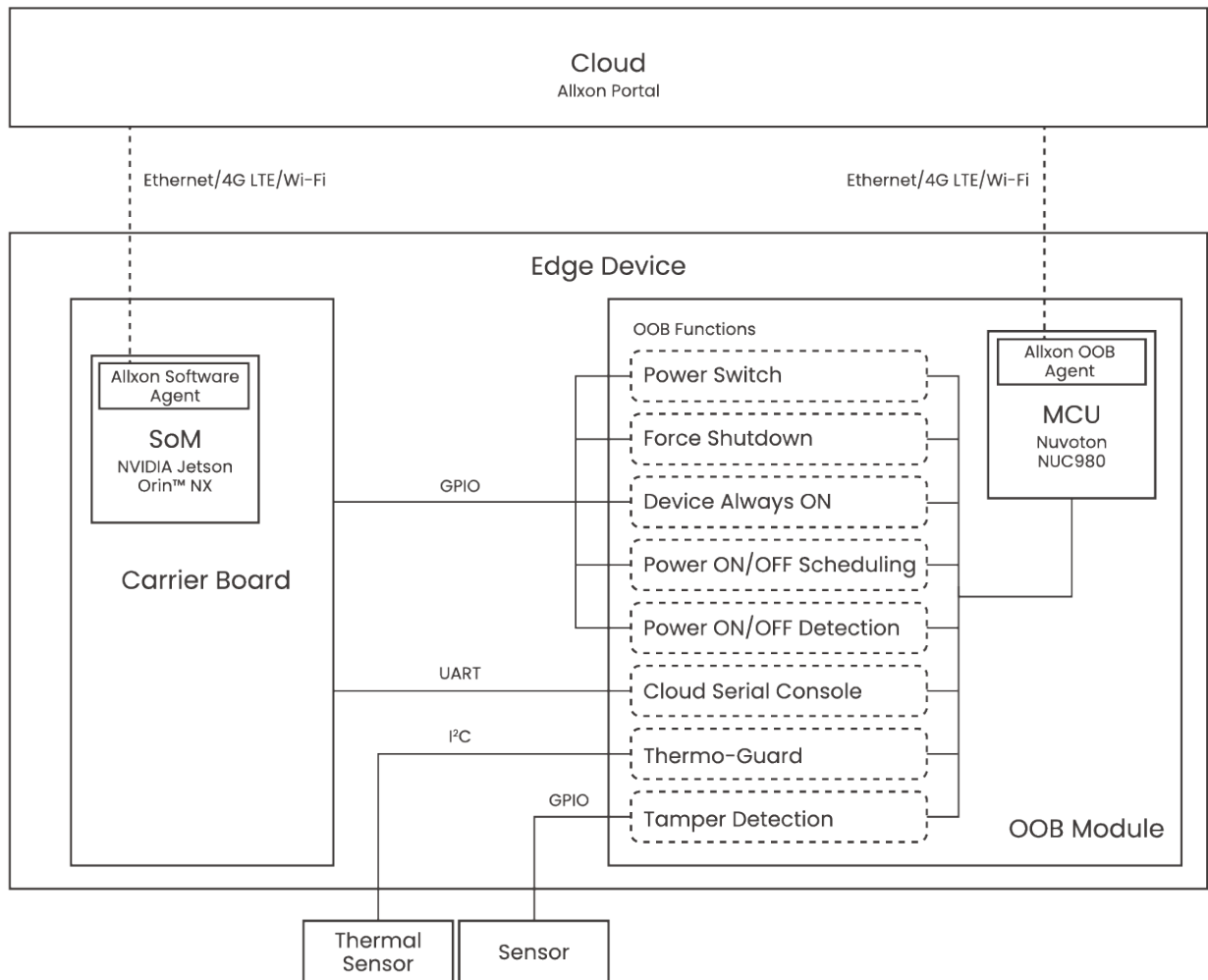
Specifications

System		
CPU	NVIDIA Jetson Orin™ NX 8GB 6-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 1.5MB L2 + 4MB L3	NVIDIA Jetson Orin™ NX 16GB 8-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 2MB L2 + 4MB L3
GPU	1024-Core NVIDIA Ampere Architecture GPU with 32 Tensor Cores	
AI Performance	NVIDIA Jetson Orin™ NX 8GB 70 TOPS	NVIDIA Jetson Orin™ NX 16GB 100 TOPS
System Memory	NVIDIA Jetson Orin™ NX 8GB 8GB LPDDR5	NVIDIA Jetson Orin™ NX 16GB 16GB LPDDR5
Interface		
Storage	Supports External NVMe	
Display Interface	2xHDMI2.0	
Ethernet	1xRJ45 for 10/100/1000 Mbps Ethernet DHCP Client	
Expansion Slot	M.2 1xM.2 2280 M Key PCIe Gen4x4 Slot 1xM.2 2280 M Key PCIe Gen4x2 Slot 1xM.2 2280 M Key PCIe Gen4x1 Slot	
USB	4xUSB3.2 Gen2 (Type-A) 1xUSB3.2 Gen1 (Pin Header) 1xUSB3.2 Gen1 (Pin Header, Without USB2.0)	
MIPI	8xMIPI CSI-2 Lanes (D-PHY 2.1, 2x4 4x2 1x4+2x2 MIPI Lanes, Support MIPI Camera, Capture Card)	
Audio	1xLine In (3.5mm or Pin Header) 1xLine Out (3.5mm or Pin Header)	
Perherial Communication	1xRS232 (Phoenix Connector or Pin Header) 1xRS485 (Phoenix Connector or Pin Header) 4xGPIO (Pin Header) 3xI ² C (Pin Header)	
Misc. Features	Firmware Upgradable AutoPower (Pin Header)	

OOB Specifications

Out-Of-Band Management Functions	
Allxon swiftDR	Power Switch Force Shutdown Power ON/OFF Scheduling Power ON/OFF Detection Reset Cloud Serial Console
Extension I/O	1x USB 2.0, 1x I ² C, 1x UART, 2x GPIO, 1x 3.3Vdc
Out-Of-Band Management Network Interface	
Ethernet	1-port 10/100 Mbps RJ45 Port
Wireless	Support 4G LTE Module with SIM Card Slot & Wi-Fi USB Dongle

OOB Management Architecture



Remote Management Enrollment

VPP6N0-S NX OOB MK.2 supports Allxon's remote edge AI device management solutions to assist users in overcoming the challenges encountered during the AI/IoT projects. To get started with Allxon's various solutions, follow the instructions with the web page below to activate different Allxon services according to your needs.



OOB Management Introduction



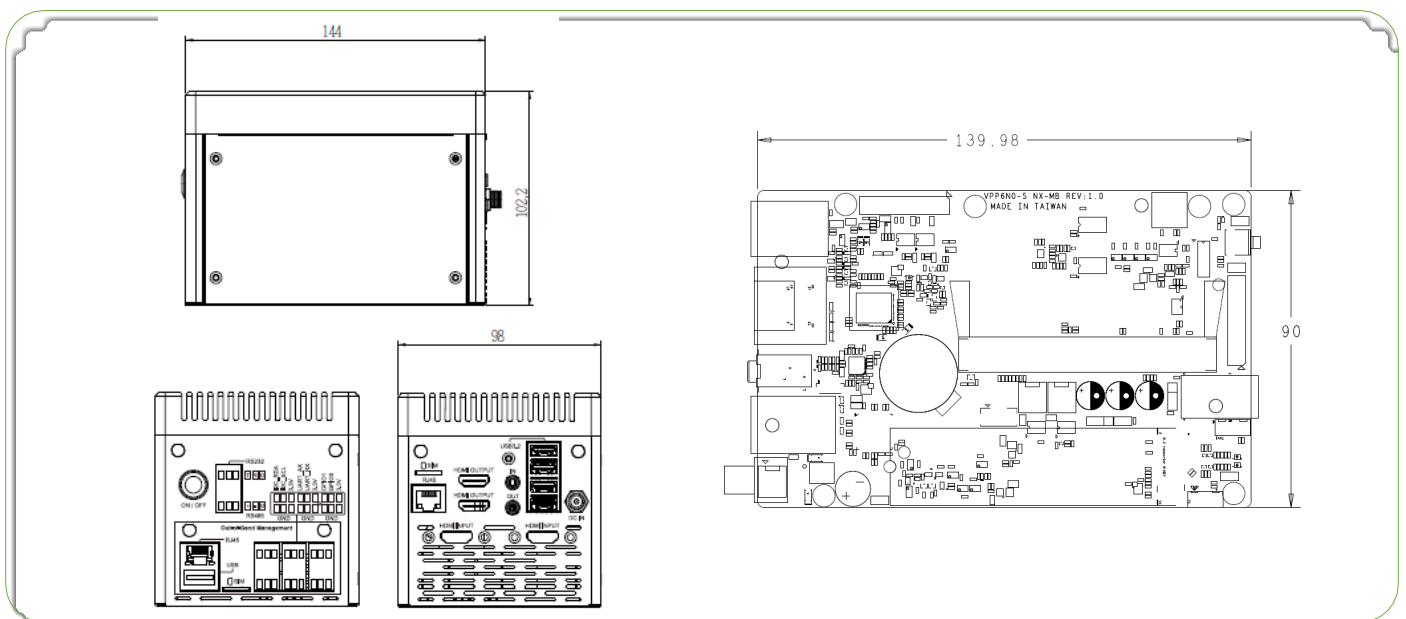
Getting Start with Remote Management

Environment

Development Environment	
OS	Ubuntu: 20.04
Kernel	5.10.104-tegra or Higher
BSP	Linux for Tegra(L4T) R35.3.1 or Higher
SDK	JetPack 5.1.1 or Higher
Environment	
Power Supply	DC input : 19V
Power Consumption	TBA
Operating Temperature	Standard Version: 0~60 °C with Airflow
Storage Temperature	-20~80 °C

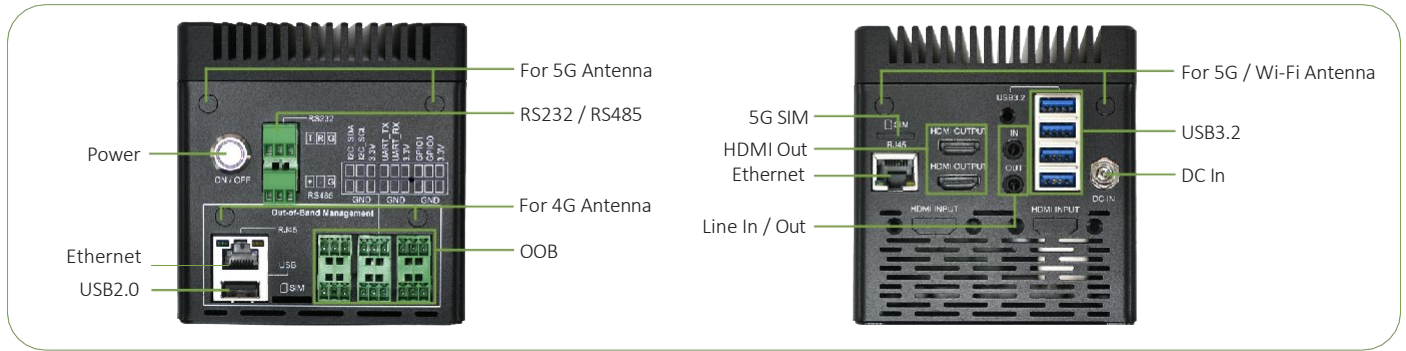
Mechanical

- Dimension of case: 144mm×98mm×102.2mm
- Dimension of main Board: 139.98mm×90mm
- Weight: TBA

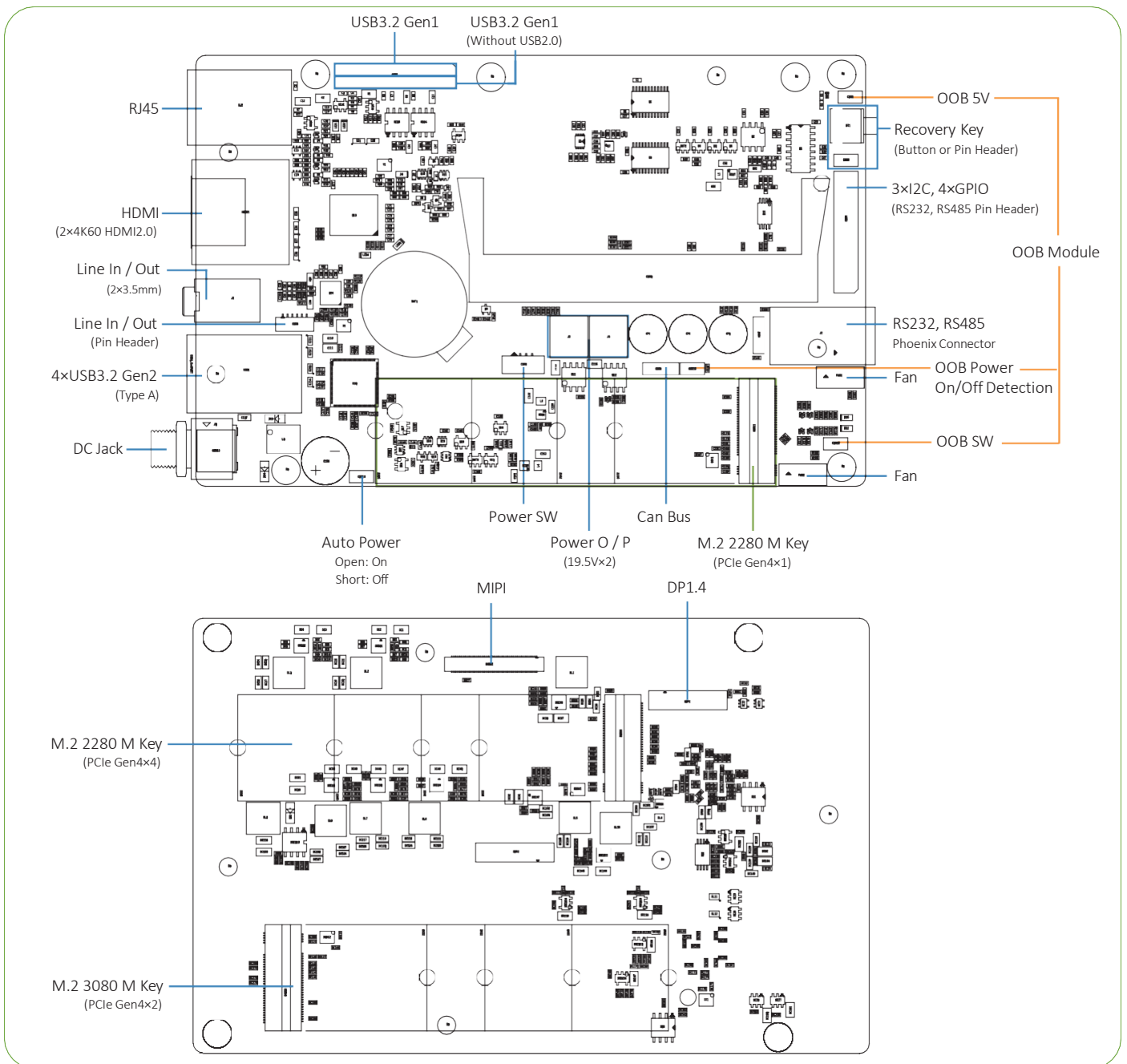


I/O Layout

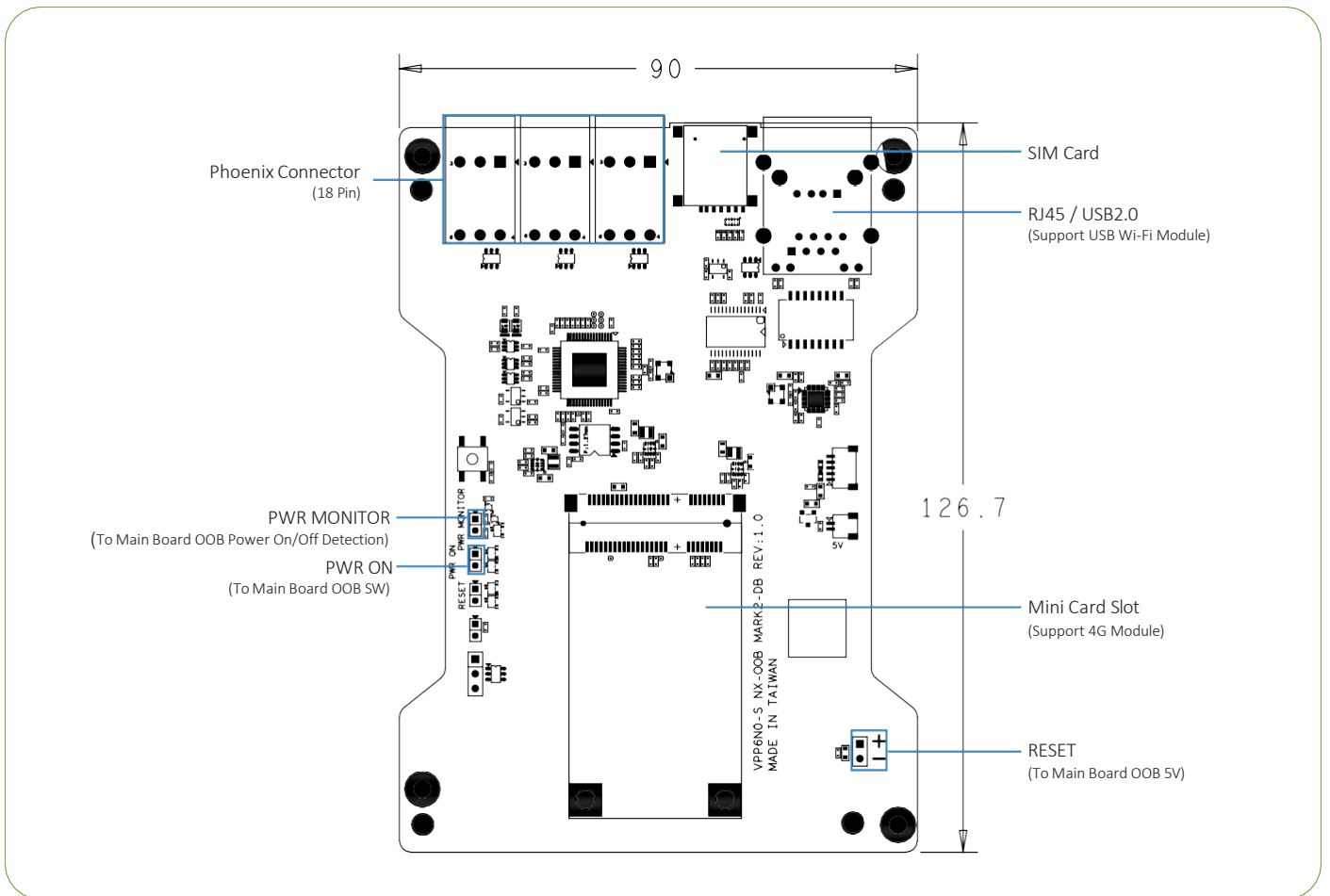
• Case



• Carrier Board



• OOB Daughter Board



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