

PE2100N

Arm System, NVIDIA Jetson, LPDDR5, USB3, GbE, 10G LAN, 4 POE LAN, HDMI, M.2 E, M.2 M, M.2 B, 9-36V

Features

- Intelligent Edge AI System with NVIDIA Jetson™ AGX Orin™
- Fanless design for harsh environment needed
- Ready to connect Wi-Fi, BT & LTE by optional modules
- Wide range of power input and operating temperature



Specifications

Processor System	SOM	Jetson AGX Orin 32G	Jetson AGX Orin 64G
	CPU	8 x Arm® Cortex®-A78AE v8.2	12 x Arm® Cortex®-A78AE v8.2
	GPU	1792-core NVIDIA Ampere GPU with 56 Tensor Cores	2048-core NVIDIA Ampere GPU with 64 Tensor Cores
	Memory	32 GB 256-bit LPDDR5	64 GB 256-bit LPDDR5
	eMMC	64 GB	
Wired Interface	Ethernet	1 x 10/100/1000 Mbps, RJ45 1 x 10 Gbps, RJ45	
	PoE Interface	4 x 10/100/1000 Mbps, RJ45, (802.3af 15W/All Port, or 802.3at 30W/Port 1&2)	
	USB (or Header)	1 x USB 3.2 Gen2, Type-C	
		2 x USB 3.2 Gen1, Type-A	
		1 x USB 2.0, Type-C for OS Flash	
		1 x USB 2.0, DB15	
	COM	1 x RS-232, DB9 1 x RS-422/485, DB9	
CAN	2 x CAN bus 2.0b, DB9		
GPIO	2 x I2C & 1 x SPI & 1 x USB 2.0, DP15 5 x GPIO & 2 x UART, DP15		
Display	1 x HDMI 2.0b, 3840 x 2160 @60Hz		
Wireless Interface	Wi-Fi	Optional	
	Bluetooth	Optional	
	Cellular	Optional	
	GPS	Optional	
Expansion	M.2 M key	1 x 2280, for M.2 SSD (PCIe, OS disk, size option)	
	M.2 E key	1 x 2230, for Wi-Fi/BT (PCIe, USB 2.0)	
	M.2 B key	1 x 3042/3052, for 4G/5G (USB 2.0/3.0)	
Slot	SD	1 x Micro SD	
	SIM	1 x Micro SIM	
Power	Power Input	9 to 36 VDC, 4-pin DC Jack	
Mechanical	Mounting	Wall-mount / DIN rail (Optional)	
	Dimensions	System: 270 x 195 x 80 mm	
	Weight	4.2 KG	
Environment	Operating Temp.	-25 ~ up to 55°C	
	Storage Temp.	-40 ~ 85°C	
	Relative Humidity	10 ~ 95% (non-condensing)	
Security	TPM	Optional	
Others	Watch Dog Timer	Yes. HW WDT	
	Operating System ¹	Ubuntu Desktop	

Preliminary