

# PE1101N

Arm System, NVIDIA Jetson, LPDDR5, USB3, Dual LAN, HDMI, M.2 E, M.2 M, M.2 B, AEM, Dual SIM, 12-24V

## Features

- Intelligent Edge AI System with NVIDIA Jetson™ Orin™ NX, Orin™ Nano
- Fanless design and diverse I/O in an ultra compact size
- Ready to connect Wi-Fi, BT by optional modules
- Wide range of power input and operating temperature



## Specifications

	SOM	Jetson Orin Nano 4G	Jetson Orin Nano 8G	Jetson Orin NX 8G	Jetson Orin NX 16G
<b>Processor System</b>	CPU	6 x Arm® Cortex®-A78AE v8.2			8 x Arm® Cortex®-A78AE v8.2
	GPU	512-core NVIDIA Ampere GPU with 16 Tensor Cores	1024-core NVIDIA Ampere GPU with 32 Tensor Cores		
	Memory	4 GB 64-bit LPDDR5	8 GB 128-bit LPDDR5	8 GB 128-bit LPDDR5	16 GB 128-bit LPDDR5
	<b>Wired Interface</b>	Ethernet	1 x 10/100/1000 Mbps, RJ45		
	USB	2 x USB 3.2 Gen2, Type-A 1 x USB 2.0, Type-C for OS Flash			
	CAN	1 x CAN bus 2.0b, DB9			
	GPIO	5 x GPIO & 1 x I2C & 1 x UART, DP9			
	Display	1 x HDMI 1.4a, 3840 x 2160 @30Hz		1 x HDMI 2.0b, 3840 x 2160 @60Hz	
<b>Wireless Interface</b>	Wi-Fi	Optional			
	Bluetooth	Optional			
<b>Expansion</b>	M.2 E key	1 x 2230, for Wi-Fi/BT (PCIe, USB 2.0, I2C and PCM)			
	M.2 M key	1 x 2242, for M.2 SSD (PCIe, OS disk, size option)			
<b>Power</b>	Power Input	12 to 24 VDC, 2-pin terminal block			
<b>Mechanical</b>	Mounting	Wall-mount / DIN rail (Optional)			
	Dimensions	System: 130 x 90 x 72 mm			
	Weight	0.95 KG			
<b>Environment</b>	Operating Temp.	-25 ~ up to 55°C (with 0.5 m/s air flow)			
	Storage Temp.	-40 ~ 85°C			
	Relative Humidity	10 ~ 95% (non-condensing)			
<b>Others</b>	Watch Dog Timer	Yes. HW WDT			
	Operating System <sup>1</sup>	Ubuntu Desktop			

## Preliminary