

PE3000N

Accelerated by NVIDIA® Jetson Thor™, 10 GbE, GMSL, support LTE/5G/GNSS module, DIO, COM, 12-60V

Features

- Next-Gen Edge AI Supercomputer with NVIDIA® Jetson T5000™
- Rugged, Low-profile and scalable chassis design
- Optional second stack enables project-specific I/O for vertical (CAN, QSFP28, POE) expansion, within 2U height
- DC 12 to 60V wide range of DC or Battery power input with Ignition
- Supports multiple generative AI pipelines and sensor fusion for next-gen robotics and automation

Specifications



Processor System	Jetson Module	NVIDIA Jetson T5000
	AI Performance	2070 TFLOPS (FP4—Sparse)
	CPU	14-core Arm® Neoverse®-V3AE 64-bit CPU
	GPU	2560-core NVIDIA Blackwell architecture GPU with 96 fifth-gen Tensor Cores Multi-Instance GPU (MIG) with 10 TPCs
	Memory	128 GB 256-bit LPDDR5X
Wired Interface	Ethernet	1 x 1 GbE, RJ45 1 x 10 GbE, RJ45
	USB (or Header)	4 x USB 3.2 Gen2, Type-A 1 x USB 3.2 Gen2, Type-C 1 x USB 3.2 Gen2, Type-C (OTG, OS Flash) 2 x USB 2.0
	Display	1 x HDMI 2.0
	Audio	1 x 3.5 Audio In 1 x 3.5 Audio Out
	Debug Port	1 x Debug console via Type-C
Wireless Interface	Wi-Fi	Optional
	Bluetooth	Optional
	Cellular	Optional
	GPS	Optional
Expansion	M.2 M key	1 x 2242/2260/2280, for M.2 SSD, etc
	M.2 E key	1 x 2230, for Wi-Fi/BT, etc
	M.2 B key	1 x 3042/3052, for 4G/5G, etc
	MIPI CSI	1 x AGX CSI connector, 16 lane (for GMSL)
	COM / CAN	2 x RS-232/422/485 2 x CAN bus
	PCIe	1 x PCIe x4/x8
	MGBE	4 x 25 GbE (for 1/5/10/25G cable or fiber ethernet, e.g. RJ45, M12, QSFP28 100G, etc)
	Time Sync	PPS, PTP, Camera Sync
	GPIO	UART, I2C, SPI, Control Pin, GPIO
	DIO	2x5 DI & DO
Slot	SIM	1 x nano-SIM slot
Power	Power Input	12 to 60 VDC, 3-pin terminal block (1-pin for remote power button)
Mechanical	Mounting	Wall-mount (support assembly with DIN rail clips)
	Dimensions	Board: 145 x 145 mm System: 165 x 165 x 68 mm (main sku) 165 x 165 x 97 mm (with expand/config box)
	Weight	TBD
Environment	Operating Temp.	-20 ~ up to 60°C
	Storage Temp.	-40 ~ 85°C
	Relative Humidity	10 ~ 95% (non-condensing)
	Vibration (Operating)	MIL-STD 810H Method 514.8, Category 4 (Truck transportation over US highways); 5 Grms, 5-500 Hz, 3 Axes
	Shock (Operating)	MIL-STD 810H Method 516.8, Procedure I; 40 Grms/11 ms
Security	TPM	on-board TPM v2.0
Others	Watch Dog Timer	Yes. HW WDT
	Operating System ¹	Ubuntu Desktop