



Features

- NVIDIA Jetson Orin Nano 8GB platform
- 6-core Arm® Cortex® A78AE 64-bit CPU
- 67 TOPS AI performance
- Supports 2 xUSB 3.0, 2 xUSB 2.0, 2 xRS232 / RS485
- 1 xCAN, 6 xDI, 6 xDO
- Supports 1*HDMI, 2 xLAN
- Wide range DC 9~36V Input (optional)
- Aluminum case with 1x external top fan
- Wide operating temperature: -20°C to 60°C

Overview

The TDD-IPC-AS43 is a compact industrial AI edge computer based on the NVIDIA Jetson Orin Nano 8GB platform, delivering a powerful edge AI computing solution when your application requires AI processing to be integrated into industrial equipment. It integrates a 6-core Arm® Cortex® A78AE CPU, NVIDIA Ampere GPU with 32 Tensor Cores, 8GB LPDDR5 memory, and up to 67 TOPS AI performance. With multiple I/O interfaces, full aluminum alloy enclosure, fan cooling system, DC 9~36V wide voltage input, and -20°C to 60°C operating temperature, it provides high durability and versatility for industrial automation, AI video analytics, machine vision, smart security, robotics, AGV/AMR, and edge AI applications.

Specifications

Case Color	Black (color can be customized)	
Material	Full Aluminum Alloy	
CPU	6-core Arm® Cortex® A78AE v8.2 64-bit CPU	
Chipset / GPU	1024-core NVIDIA Ampere GPU with 32 Tensor Cores	
RAM	2xSODIMM DDR4 2133/2400MHz Memory slots, up to 64GB	
AI Performance	67 TOPS	
RAM	8GB 128-bit LPDDR5	
Storage	512GB NVMe SSD pre-installed, via 1 × M.2 Key-M 2280 PCIe x4 slot	
Audio	1 xLine-out, 1 xMic	
Display Interface	1 xHDMI 1.4, supports 4K/30fps and 1080P/30fps	
Display	Integrated Intel HD Graphic card, support 1*VGA, 1*HD, 1*LVDS display input	
I/O	USB	2 xUSB2.0, 2 xUSB3.0
	COM	2 xRS232 / RS485
	Line In/Out	1
	LAN	2 xLAN
	MIC / Audio	1 / 1
	CAN / DI / DO	1 / 6 / 6
Wireless	1 xWiFi + Bluetooth	
Network Card	2 xRJ45 Gigabit Ethernet	
Expansion	1 xMini-PCIE, support 4G module	
Power	DC 9-36v +/- 5%, with 1 x2P(P=5.08mm) phoenix connector	
Operating System	Ubuntu 20.04	
Working Temperature	-20°C - 60°C	
Working Humidity	0% - 95% relative humidity, non-condensing	
Mechanical	Product Dimensions: 141.4x126x44mm / Weight (Unpacked/Packed): 0.8/1 kg(1pcs) Box Dimensions: 47x47.5x26mm(10pcs)/VESA Mounting bracket, DIN rail(35mm)	
Others	Warranty/Enclosure Color: 1 year (optional for 2) / silver black, Ready for Use: 24/7	

Default Interface

USB 3.0 x2 / USB 2.0 x2 / LAN x2 / HDMI x1 / RS232/485 x2 / CAN x1 / DI x6 / DO x6 / TF x1 / SIM x1 / Line-out x1 / Mic x 1 / WiFi + Bluetooth x1 / DC 9-36V x1

* TDD (www.tddtouch.com, sales@tddtouch.com) reserves the right to change specifications without prior notice.