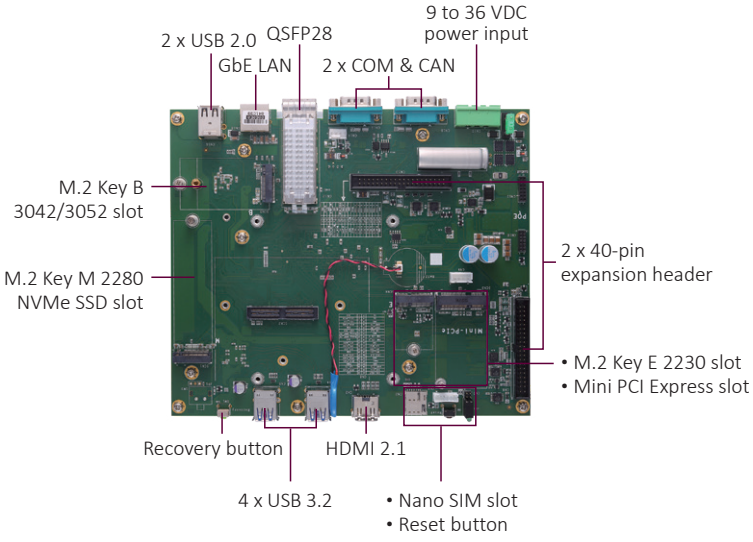
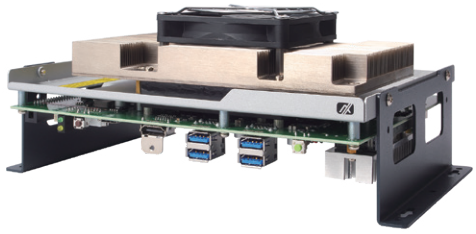
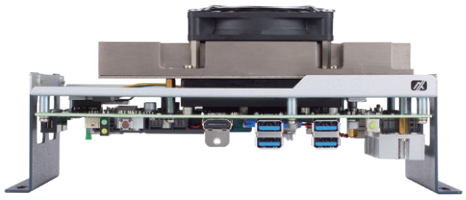
AIE015-AT NEW

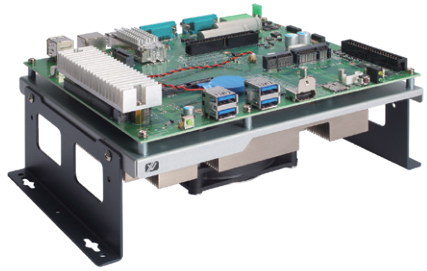
Edge AI Developer Kit with NVIDIA® Jetson Thor™, 1 HDMI, 1 GbE, 1 QSFP28, 6 USB, 2 COM/CAN, 16-CH DIO, and 8-CH GMSL for Physical AI and Robotics

NVIDIA Preferred Partner









100G 1 x QSFP28 | 8-CH GMSL | LPDDR LPDDR5X | Smart Ignition | 9 to 36VDC | AIIXON Allxon DMS

Features

- NVIDIA® Jetson Thor™ (Up to 2070 FP4 TFLOPS)
- Ideal for NVIDIA Isaac™, NVIDIA Holoscan, and NVIDIA Metropolis
- Effortless management with USB and PoE device power control
- Supports 1 QSFP28 & 8-CH GMSL for camera and sensor fusion
- Seamless connectivity with 5G, Wi-Fi 6E, and GbE combined
- Support multiple purpose of AI model for robotics and physical AI application

NVIDIA® Jetson Thor™- T5000 available through to 2035*
The official end of life notice will be sent for at least 8 months before the last shipment.

Specifications

AI Accelerator	NVIDIA® Jetson Thor™ Jetson T5000™ (2070 FP4 TFLOPS) * By project: Jetson T4000™ (1200 FP4 TFLOPS)	
CPU	Jetson T5000: 14-core Arm® Neoverse®-V3AE 64-bit CPU 1 MB L2 cache per core 16 MB shared system L3 cache Jetson T4000: 12-core Arm® Neoverse®-V3AE 64-bit CPU 1 MB L2 cache per core 16 MB shared system L3 cache	
GPU	Jetson T5000: 2560-core NVIDIA Blackwell architecture GPU with 96 fifth-gen Tensor Cores Multi-Instance GPU (MIG) with 10 TPCs Jetson T4000: 1536-core NVIDIA Blackwell architecture GPU with 64 fifth-gen Tensor Cores Multi-Instance GPU (MIG) with 6 TPCs	
System Memory	Jetson T5000: 128 GB 256-bit LPDDR5X 273 GB/s Jetson T4000: 64 GB 256-bit LPDDR5X 273 GB/s	
Carrier Board	PSB909	
System I/O Outlet	Ethernet	1 × QSFP28 (4 × 25GbE; Jetson T4000: 3 × 25GbE) 1 × GbE port (Intel® I210-IT; optional PoE PSE, 30W, IEEE 802.3at)
	Serial	2 x DB9 for COM port (RS-232/422/485) & CAN * Supports CAN 2.0A/B and CAN FD. * Supports CAN termination resistor. * CAN is supported only on the T5000.
	GPIO	1 x 16-CH DIO (non-isolated, 5V TTL) * 16-CH DIO is available via 40-pin Expansion Header #2. * Optional DB44 cable provides external I/O access.
	USB	4 × USB 3.2 Gen 2 (one port supports image flashing) 2 x USB 2.0
	GMSL	8 x Fakra-Z connector for GMSL1/2 automotive camera (by option)
	Display	1 x HDMI 2.1 (lockable) with 4K2K supported
	Security	TPM 2.0 (by option)
	Expansion Header	2 x 40-pin expansion box header: #1: 5V, 3.3V, 2 x UART, I^2S, 2 x I^2C, SPI, 2 x PWM, 4 x GPIO #2: 12V, 5V, 2 x 8-CH DIO (5V), 2 x CAN, 1 x GPIO * SPI is unavailable when the optional TPM 2.0 is installed. * CAN is supported only on the T5000.
	Power	9 to 36VDC power input connector * Supports smart ignition power control.
	Others	1 x recovery button (for image update) 1 x reset button
Storage	1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot * Thor only supports SSD for the bootable device. * The AIE015-AT requires an SSD for image installation. Kindly order the SSD if you need image installation service.	
Expansion Interface	1 x M.2 Key E 2230 slot for Wi-Fi 6E 1 x full-size PCI Express Mini Card slot (USB + PCI Express signal) for Wi-Fi/LTE 1 x M.2 Key B 3042/3052 slot for 5G/LTE 1 x Nano SIM slot	
System Indicator	1 x green LED for system power-on 1 x amber LED for M.2 SSD storage	
Power Input	9 to 36 VDC (typical 12/24 VDC) with smart ignition power control Inrush current: 2.536/1.292A	
Power Consumption (max.)	240W	
Operating Temperature	MAXN power mode:-25°C to +70°C (-13°F to +158°F)	
Storage Temperature	-25°C to +85°C (-13°F to +185°F)	
Relative Humidity	10% to 95% relative humidity, non-condensing	
Shock (operation)	IEC 60068-2-27 (with SSD: 50G, half-sine, and 11 ms duration)	
Vibration (operation)	IEC 60068-2-64 (with SSD: 1Grms STD, random, 5 to 500 Hz, and 1 hr/axis)	
Dimensions (W x D x H)	216 x 179.6 x 80 mm (8.5" x 7.07" x 3.15") * Dimensions exclude the wall mount kit.	
Packing Dimensions (W x D x H)	398 x 351 x 211mm (15.67" x 13.82" x 8.3")	
Weight (net/gross)	1.5 kg (3.31 lbs)/3.7 kg (8.24 lbs)	
Mounting Type	Wall mount	
Certifications	CE	
OS Support	Linux Ubuntu 24.04 or later	

Ordering Information

Standard	
AIE015-AT-T5	Edge AI developer kit with NVIDIA Jetson T5000, 1 HDMI, 1 GbE, 1 QSFP28, 6 USB, 2 COM/CAN, 16-CH DIO, and 8-CH GMSL
Optional	
M.2 NVMe SSD 256GB or above * The AIE015-AT requires an SSD for image installation. Kindly order the SSD if you need image installation service.	
5G module	
LTE module	
Wi-Fi module	
Power cord	
24V/230W adapter * For evaluation only. Actual power requirements may exceed 230W.	
590000107700	DB44 cable 20 cm, for 40-pin expansion box header *AIE015 features two 40-pin expansion box headers. Please select the required quantity.
E29R150118	ACC150-8GMSL-A15 (8CH GMSL module kit)
Front & rear panel kit	
OOB (Out-of-band) module kit	

* Specifications and certifications may vary based on different requirements.

Remote Management Enrollment

Allxon Portal - Sign up for 24/7 secure service to access comprehensive remote device management features through a centralized cloud platform.
* Enrollment page: https://allxon.com/jetson/device_enroll/

Packing List

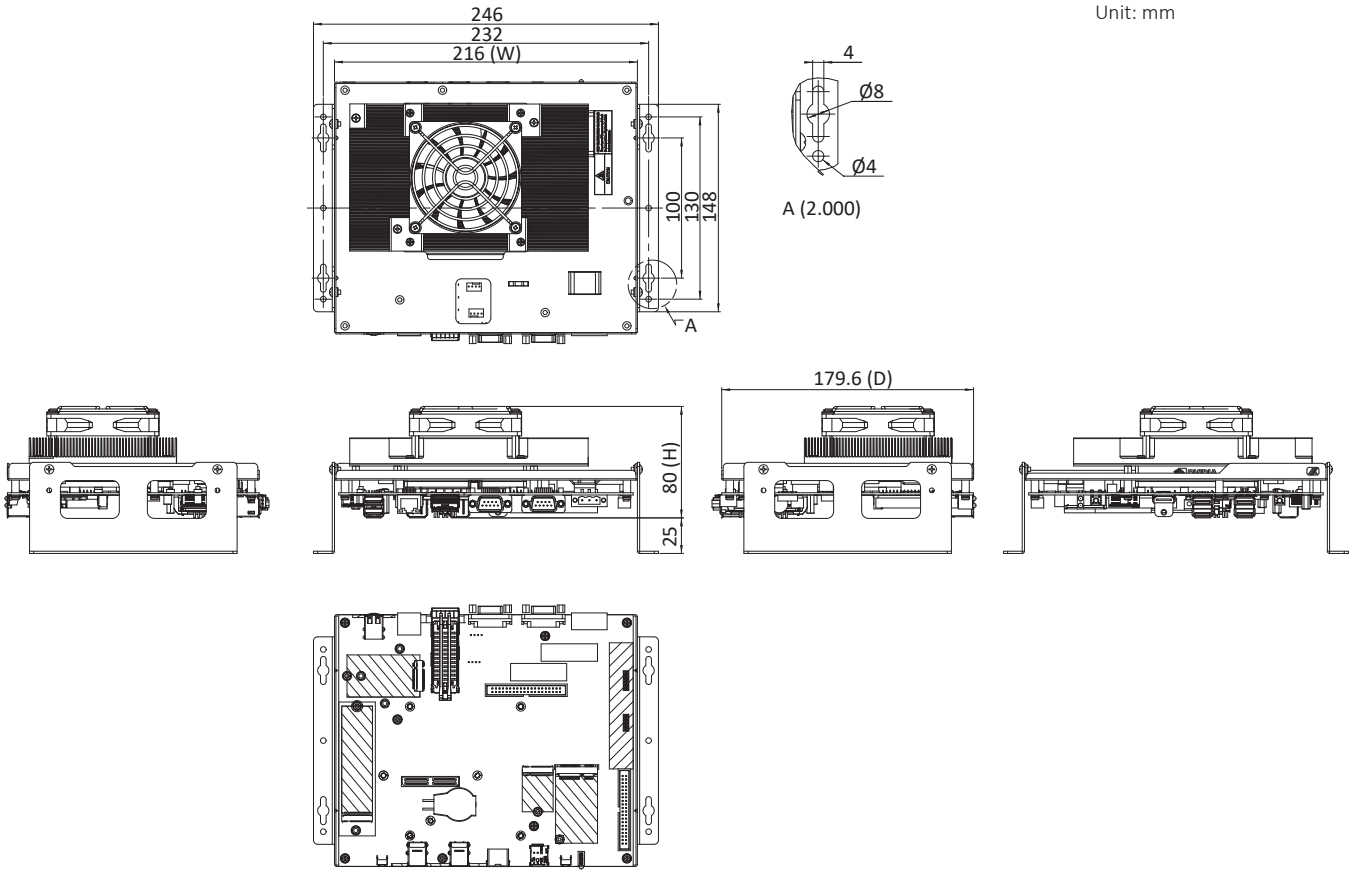
1 x terminal block connector
1 x screw pack
1 x M.2 SSD thermal kit
1 x 5G module thermal kit
1 x wall mount kit

Power Protection

DC Adapter
OVP (over voltage protection)
OCP (over current protection)
UVP (under voltage protection)
Reserve protection

Dimensions

Unit: mm



© 2026 Axiomtek Co., Ltd. All rights reserved.