

Autonomous / DeviceEdge

Jetson Thor Platform AIB-AT78/AT68



Specifications

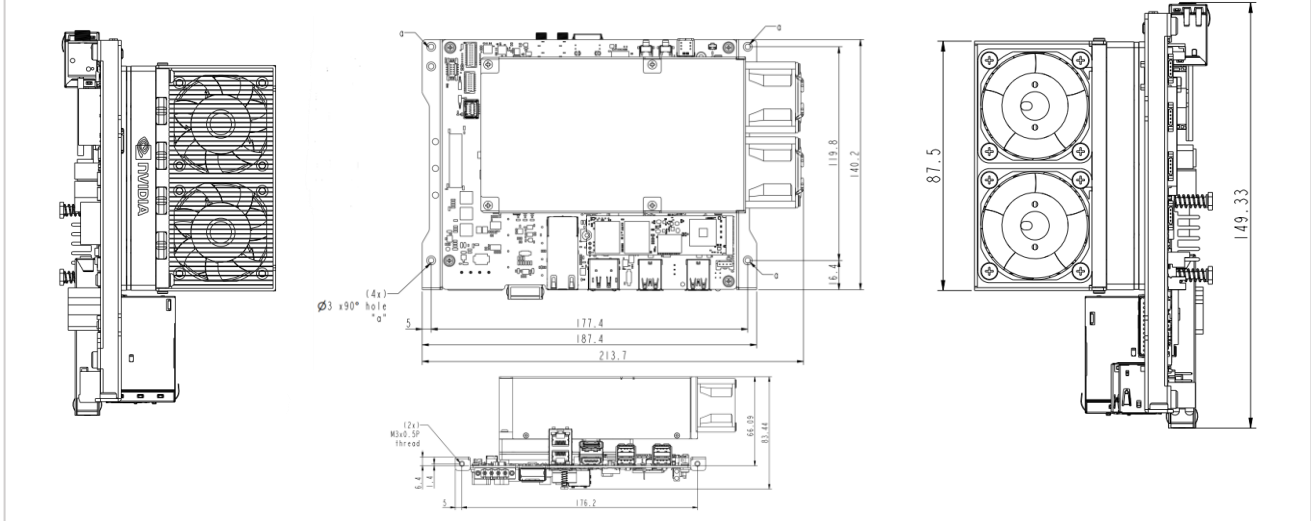


Features

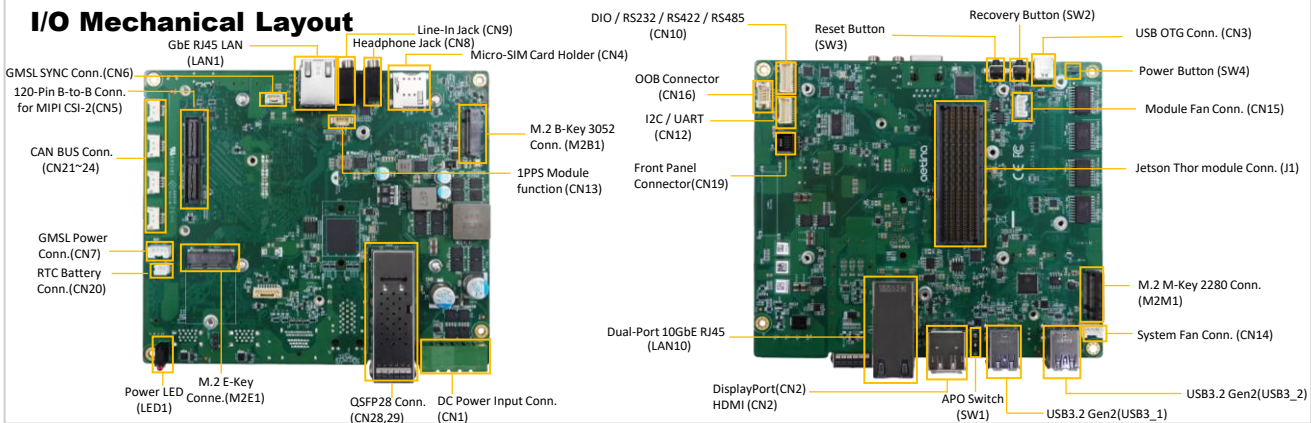
- NVIDIA Blackwell architecture GPU
- AI Power up to 2070 FP4/TFLOPS
- Support QSFP28 up to 100Gbps
- Support Dual 10G LAN port
- Optional EtherCAT support
- 4 x USB 3.2 Gen2
- Wide range DC-in voltage

Model Number	AIB-AT78	AIB-AT68
Module Compatibility	NVIDIA Jetson Thor T5000	NVIDIA Jetson Thor T4000
AI Performance	2070 FP4/TFLOPS/ 1035 FP8 TFLOPS	1200 FP4/TFLOPS
CPU	14-Core ARM Neoverse V3AE (64-bit)	12-Core ARM Neoverse V3AE (64-bit)
Memory	128GB 256-bit LPDDR5X	64GB 256-bit LPDDR5X
Storage	1 x M.2 M-Key 2280 (NVMe 1TB built-in)	
Display	1 x HDMI 2.0b	
	1 x DP 1.4a	
LAN	2 x RJ45 10GbE	
	1 x RJ45 1GbE EtherCAT	
USB	1 x USB-C for OTG only	
	4 x USB-A 3.2 Gen 2	
I/O Interfaces	1x QSFP28 slot (T5000: 4x 25 GbE, T4000: 3x 25 GbE)	
	1 x HD Audio-in/out	
	2 x RS232/RS485/RS422	
	4 x Isolated CAN FD (T5000 Only)	
	4 x DI/DO (Isolation) @3.3V	
	2 x UART @ 3.3V	
	2 x I2C @ 3.3V	
	1 x OOB (by request)	
Expansion	1 x M.2 M-Key 2280 (NVMe 1TB built-in)	
	1 x M.2 E-Key 2230 (WiFi/BT)	
	1 x M.2 B-Key 3042/3052 (LTE/4G/5G)	
	1 x Micro SIM card slot	
Camera	1 x 120pin MIPI	
Power Input / Connector	9V-48V	
Dimension (W x D)	L:187.4 mm x W:140.2 mm x H:42.78 mm (w/o fan sink, with bracket) L:213.7 mm x W:140.2 mm x H:83.44 mm (with fan sink & bracket)	
Net Weight	1.485kg	
Temperature	Operating Temp.: -25°C ~ +70°C (-13°F ~ +158°F)	
	Storage Temp.: -40°C ~ +85°C (-40°F ~ +185°F)	
Humidity	95% @ 40°C relative humidity, non-condensing	
OS Support	Linux	
Certification	CE / FCC Class A / UKCA	

System & Mounting Dimensions



I/O Mechanical Layout



Ordering Information

Model name	Description
AIB-AT78-1-A1	THOR T5000, 1 x PD, 1 x HDMI, 1 x GbE, 2 x 10GbE, 5 x USB, QSFP, B/E/M Key, 9 to 48 VDC input, -25°C ~ +70°C
AIB-AT68-1-A1	THOR T4000, 1 x PD, 1 x HDMI, 1 x GbE, 2 x 10GbE, 5 x USB, QSFP, B/E/M Key, 9 to 48 VDC input, -25°C ~ +70°C

Packing List

Model name	Description
92-6BAT78-J001	AIB-AT78 carrier board w/ Thor T5000 128GB
92-6BAT68-J001	AIB-AT68 carrier board w/ Thor T4000 64GB
53-0FG280-2400	POWER ADAPTER MW:GST280A24-ECH
3102000253N000	UART/I2C Cable
3102000252N000	DIO/COM1/COM2 Cable
3102000251N000	CANBUS Cable

Peripheral (Optional)

Model name	Description
53-0GA210-0003	Intel AX210 Wi-Fi 6E/BT Module
3107000001X100	WIFI-6E RP SMA JACK GRAY 300mm
3120000002X000	WI-FI ANTENNA
53-0LN990-0001	Telit M.2 5G/LTE Module
3107000013X000	5G SMA JACK MHF-4L BLACK 350mm
3120000004X000	5G ANTENNA

Accessories (Optional)

Model name	Description
3102000153N000	US power cord
32-010000-0006	EU power cord
32-010000-0008	JP power cord
3102000037N000	UK power cord