

Autonomous / DeviceEdge

Jetson Thor AIE-KT78/KT68



Features

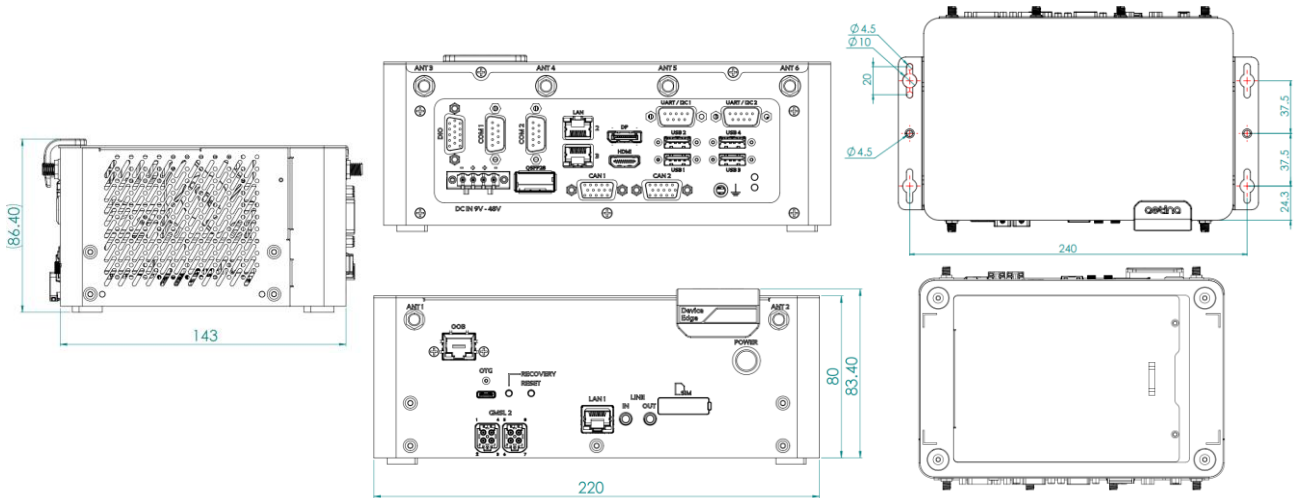
- NVIDIA Blackwell architecture GPU
- AI Power up to 2070 FP4/TFLOPS
- Support QSFP28 up to 100Gbps
- Support Dual 10G LAN port
- Support EtherCAT
- 4 x USB 3.2 Gen2
- Wide range DC-in voltage

Specifications

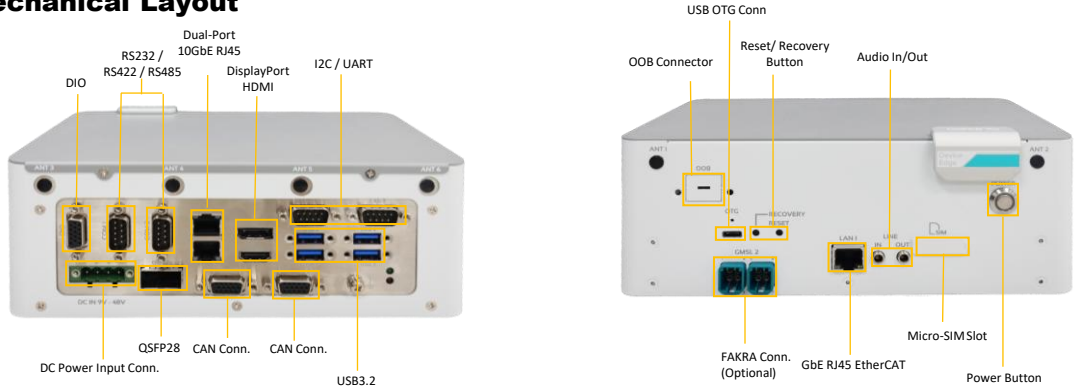
Preliminary

Model Number	AIE-KT78	AIE-KT68
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	
	2 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 (NVMe1TB 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	2 x mini-Fakra	
Power Input / Connector	9V-48V	
Dimension (W x D)	L:220 mm x W:143mm x H:80 mm	
Net Weight	3.171 kg	
Temperature	Operating Temp.: -25°C ~ +55°C (-13°F ~ +131°F)	
	Storage Temp.: -40°C ~ +85°C (-40°F ~ +185°F)	
Humidity	95% (non-condensing)	
OS Support	Linux	
Certification	CE / FCC Class A / UKCA	

System & Mounting Dimensions



I/O Mechanical Layout



Ordering Information

Model name	Description
AIE-KT78-1-A1	THOR T5000 128G, 1 x DP, 1 x HDMI, 1 x GbE, 2 x 10GbE, 4 x USB, QSPF, B/E/M Key, 9 to 48 V, -25°C ~ +55°C
AIE-KT68-1-A1	THOR T4000 64G, 1 x DP, 1 x HDMI, 1 x GbE, 2 x 10GbE, 4 x USB, QSPF, B/E/M Key, 9 to 48 V, -25°C ~ +55°C

Packing List

Model name	Description
92-CEKT78-Q000	THOR T5000 128G, 1 x DP, 1 x HDMI, 1 x GbE, 2 x 10GbE, 4 x USB, QSPF, B/E/M Key, 9 to 48 V, -25°C ~ +55°C
92-CEKT68-R000	THOR T4000 64G, 1 x DP, 1 x HDMI, 1 x GbE, 2 x 10GbE, 4 x USB, QSPF, B/E/M Key, 9 to 48 V, -25°C ~ +55°C

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
31070000013X000	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