

AI Inference / DeviceEdge

Jetson System AIE-KX13/23



Features

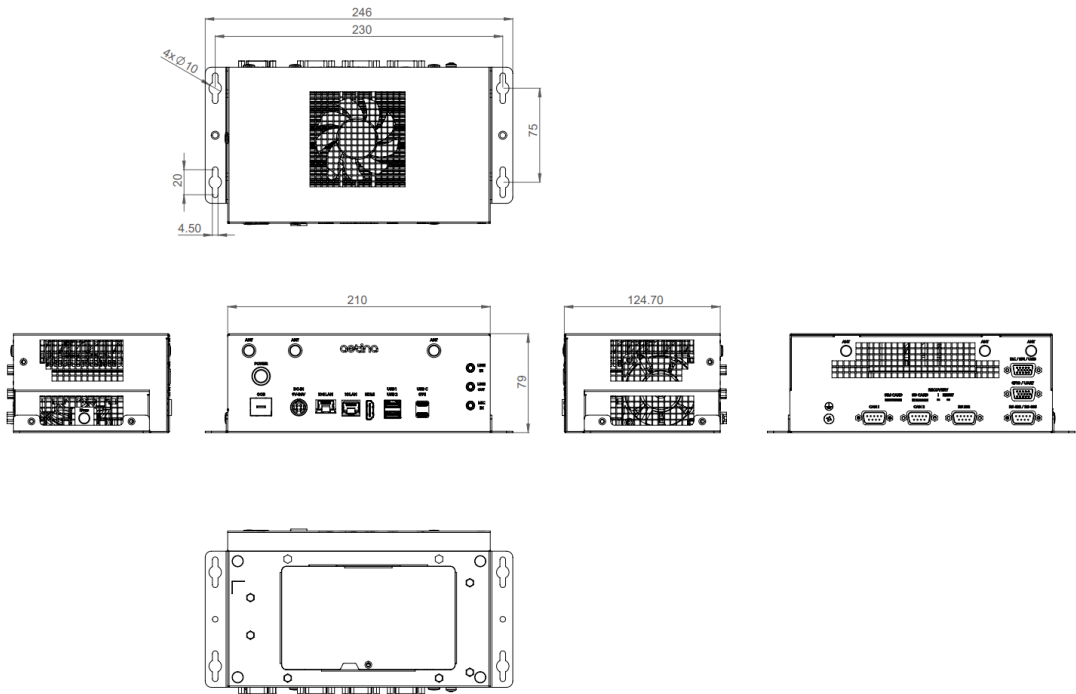
- Supports NVIDIA Jetson AGX Orin 32GB/64GB
- 1 x GbE/1 x 10GbE LAN port
- 1 x B-Key/1 x E-Key/1 x M-Key slot
- Wide Power Input Range 9 to 36VDC
- Operating Temperature -25°C ~ +70°C



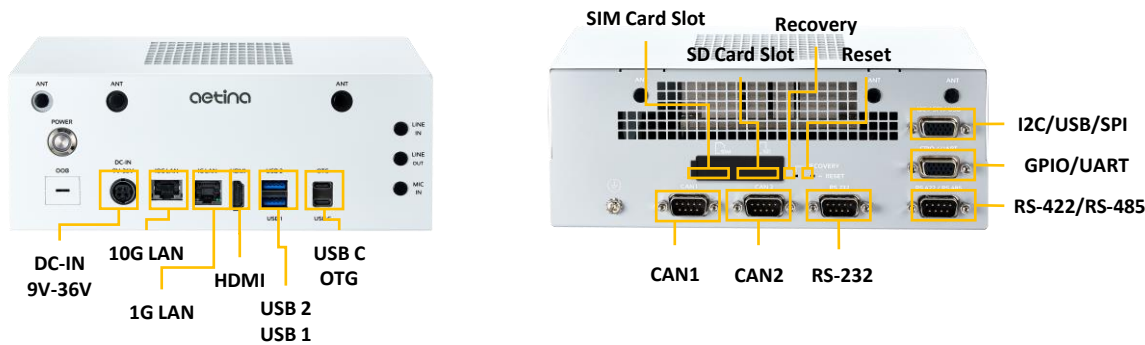
Specifications

Model Number	AIE-KX13	AIE-KX23
Module Compatibility	NVIDIA Jetson AGX Orin 32GB	NVIDIA Jetson AGX Orin 64GB
AI Performance	200 TOPS	275 TOPS
GPU	1792-core NVIDIA Ampere GPU with56 Tensor Cores	2048-core NVIDIA Ampere GPU with 64 Tensor Cores
CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3	12-core Arm® Cortex®-A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3
Memory	32 GB 256-bit LPDDR5 204.8 GB/s	64GB 256-bit LPDDR5 204.8 GB/s
Storage	64GB eMMC 5.1	
Display	1 x HDMI 2.0 Type A	
Audio	Line-out/Line-in/Mic (optional with Daughter Board)	
LAN	1 x RJ-45 GbE port, 1 x RJ-45 10GbE port	
USB	2 x USB 3.2 Gen1 Type A, 1 x USB 2.0 (DB-15), 1 x USB 2.0 Type-C (OTG only), 1 x USB 3.2 Type-C Gen 2	
I/O Interfaces	2 x I²C, 1 x SPI, 5 x GPIO, 2 x UART 1 x RS-232, 1 x RS-422 / RS-485 (2-in-1) 2 x CAN 2.0b (isolation; support CAN FD) 1 x microSIM Card Slot	
Expansion	1 x M.2 B-Key 3042/3052 (LTE/4G/5G) 1 x M.2 E-Key 2230 (WiFi/BT) 1 x M.2 M-Key 2280 (support NVMe; PCIe x4 Gen4) 1 x MicroSD Slot	
MISC. Function	1 x Power / Recovery / Reset Button	
Power Input / Connector	DC-IN 9 to 36 VDC / 4-Pin DC Jack Power Connector	
Power Consumption	Idle: 9.655 W Full Loading: 55.25 W	Idle: 9.9 W Full Loading: 75.25 W
	*For more test condition information, please refer to user manual	
Dimension (W x D x H)	210 x 124.7 x 79 mm (8.3 x 4.91 x 3.11 in)	
Mounting	Wall Mount (optional) / Din Rail (optional)	
Net Weight	1.969 kg (4.34 lb)	
Vibration	1 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis	
Shock	10 G, IEC 60068-2-27, half sine, 11 ms duration	
Temperature	Operating Temperature: -25°C ~ +70°C (-13° F ~+158° F) with 0.5 m/s air flow Storage Temperature: -40°C ~ +85°C (-40° F ~+185° F)	
Humidity	95% @ 40°C (104°F) (non-condensing)	
Software Support	Linux (Support Jetpack 5.0 above)	
Certification	CE / FCC Class A / UKCA	

System & Mounting Dimensions



I/O Mechanical Layout



Ordering Information

Model name	Description
AIE-KX13-1-A1	AGX Orin 32GB, 1 x HDMI, 1 x GbE, 1 x 10GbE, 3 x USB, B/E/M Key, 9 to 36 VDC input, -25°C ~ + 70°C
AIE-KX23-1-A1	AGX Orin 64GB, 1 x HDMI, 1 x GbE, 1 x 10GbE, 3 x USB, B/E/M Key, 9 to 36 VDC input, -25°C ~ + 70°C

Packing List

Item/Part Number	Description
92-CEKX13-J001	AIE-KX13 system w/ AGX Orin 32GB
92-CEKX23-J001	AIE-KX23 system w/ AGX Orin 64GB
53-0FG160-1200	85~264V 138W 12V 11.5A power adaptor

Accessories (Optional)

Part Number	Description
32-010000-0005	US power cord
32-010000-0006	EU power cord
32-010000-0008	JP power cord
3102000037N000	UK power cord
55-BEKX13-Z000	Wall Mount Kit
55-AEKX13-Z000	Din Rail Kit

Peripheral (Optional)

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