

AI Inference / DeviceEdge

Jetson System AIE-KX13/23-1-A2



Features

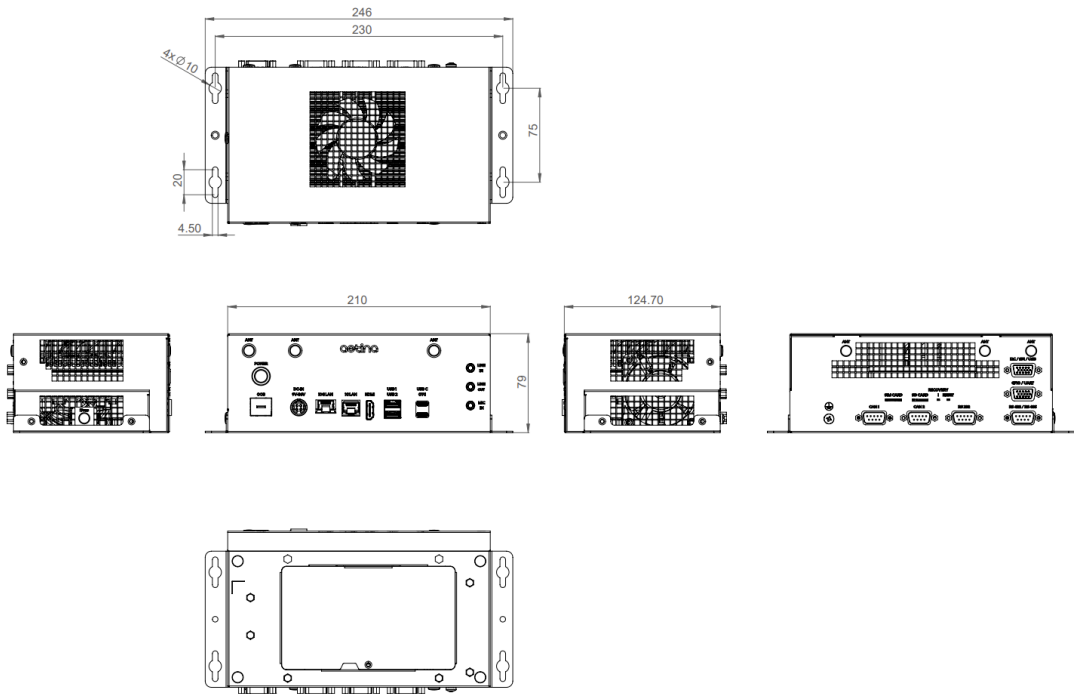
- Supports NVIDIA® Jetson AGX Orin™ 32GB/64GB
- 1 x GbE LAN, 1 x 10GbE LAN
- 1 x M.2 B-Key, 1 x M.2 E-Key, 1 x M.2 M-Key
- Wide Power Input Range 9 to 36V DC
- Operating Temperature -25 to 70°C
- Supports OOB (out-of-band) powered by Innodisk (optional)



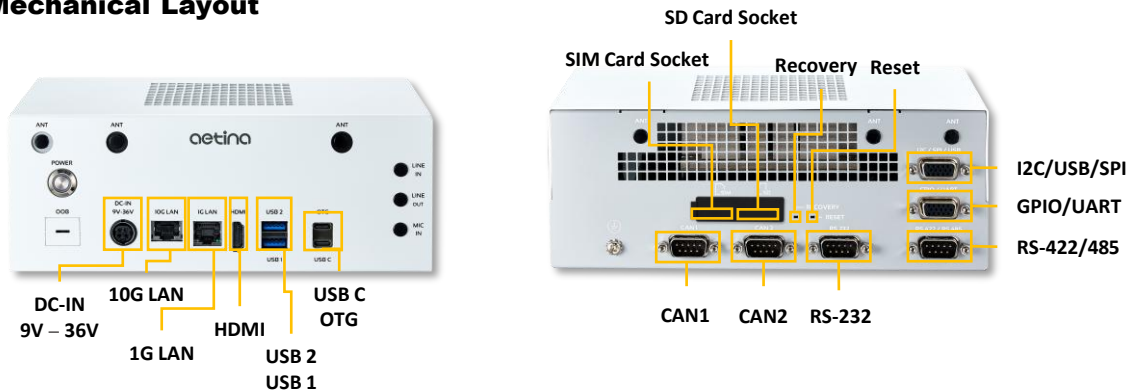
Specifications

Model Number	AIE-KX13-1-A2	AIE-KX23-1-A2
Module Compatibility	NVIDIA® Jetson AGX Orin™ 32GB	NVIDIA® Jetson AGX Orin™ 64GB
AI Performance	200 TOPS	275 TOPS
GPU	1792-core NVIDIA® Ampere GPU with 56 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	32GB 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, requires daughter board)	
LAN	1 x RJ-45 1GbE port 1 x RJ-45 10 GbE port	
USB	2 x USB 3.2 Gen 1 Type-A 1 x USB 3.2 Gen 2 Type-C 1 x USB 2.0 OTG Type-C 1 x USB 2.0 DB-15	
I/O Interfaces	2 x I²C 1 x SPI 2 x UART 5 x GPIO 1 x RS-232 1 x RS-422/485 2 x CAN 2.0b (Isolated, CAN FD supported)	
Expansion	1 x M.2 B-Key 3042/3052 (LTE/4G/5G) 1 x M.2 E-Key 2230 (Wi-Fi/BT) 1 x M.2 M-Key 2280 (NVMe, PCIe Gen 4 x4) 1 x microSD card socket 1 x microSIM card socket	
MISC. Function	1 x Power button, 1 x Recovery button, 1 x Reset button	
Power Input / Connector	DC-in 9 to 36V DC, 4-pin DC Jack power connector	
Power Consumption	Idle: 6.655 W Full Loading: 52.25* W	Idle: 6.9 W Full Loading: 72.25* 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, 11ms duration	
Temperature	Operating Temperature: -25°C – 70°C (-13°F – 158°F) with 0.5 m/s airflow *Super Mode: No thermal throttling up to 65°C under full CPU + GPU load Storage Temperature: -40°C ~ 85°C (-40°F ~ 185°F)	
Humidity	95% @ 40°C (104°F) (non-condensing)	
Software Support	Linux (supports NVIDIA® Jetpack™ 6.2 and above)	
Certification	CE, FCC Class A, UKCA	

System & Mounting Dimensions



I/O Mechanical Layout



Ordering Information

Model name	Description
AIE-KX13-1-A2	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-A2	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
AIE-KX13-1-A2	AIE-KX13 system w/ AGX Orin 32GB
AIE-KX23-1-A2	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