

AI Inference / DeviceEdge

Jetson System AIE-KX13/23



Features

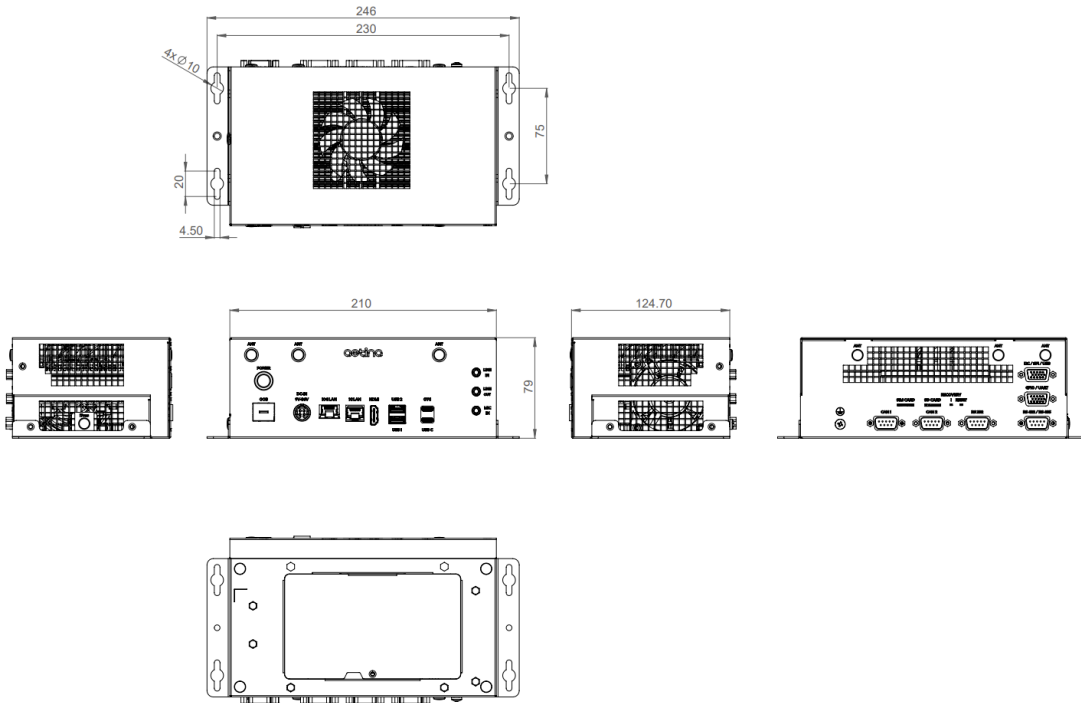
- Support NVIDIA Jetson AGX Orin™ 32GB/64GB module
- 1 x GbE/1 x 10GbE LAN port
- 1 x B-Key/1 x E-Key/1 x M-Key slot
- Wide Power Input Range 9 to 36VDC
- Operating Temperature -25°C ~ +70°C
- Out of Band function & recovery function support



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 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	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 (opt. 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 1 x RS-232, 1 x RS-422 / RS-485 2 x CAN 2.0b w/ isolation 1 x microSIM Card Slot	
Expansion	1 x M.2 B-Key 3042/3052 (support USB 3.2 Gen1, USB 2.0) 1 x M.2 E-Key 2230 (support PCIe x1 Gen4, USB 2.0) 1 x M.2 M-Key 2280 (support NVMe, PCIe x2 Gen4) 1 x MicroSD Slot	
MISC. Function	1 x Power / Recovery / Reset Button 2 x UART, 1 x UART3 (Debug only)	
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 (Wx Dx H)	210 x 124.7 x 79 mm (8.3 x 4.91 x 3.11 in)	
Mounting	Wall Mount / 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) Storage Temperature: -40°C ~ +85°C (-40° F ~+185° F)	
Humidity	90% @ 40°C Related Humidity, Non-condensing	
OS Support	Ubuntu 20.04	
Certification	CE/FCC Class A, IEC 62368	

System & Mounting Dimensions



I/O Mechanical Layout



Ordering Information

Model name	Description
AIE-KX13-1-A1	AGX Orin 32GB, 1 x HDMI, 1 x USB-A, 1 x USB-C (OTG only), 1 x RJ-45 GbE PORT, 1 x RJ-45 10GbE PORT, 1 x FAN, 9 to 36V DC INPUT, -25°C to +70°C
AIE-KX23-1-A1	AGX Orin 64GB, 1 x HDMI, 1 x USB-A, 1 x USB-MICRO AB, 1 x RJ-45 GbE PORT, 1 x RJ-45 10GbE PORT, 1 x FAN, 9 to 36V DC INPUT, -25°C to +70°C

Packing List

Item/Part Number	Description
AIE-KX13	AIE-KX13 system w/ AGX Orin 32GB
AIE-KX23	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

Peripheral (Optional)

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