

AI Inference / DeviceEdge

Jetson System AIE-KX11/AIE-KX21



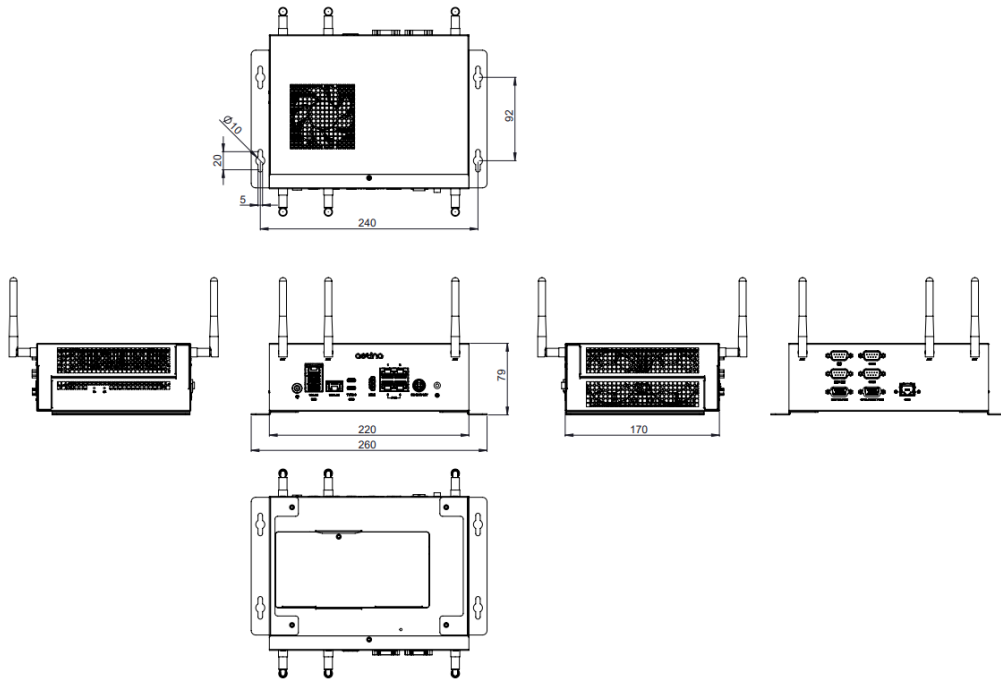
Features

- Support NVIDIA® Jetson AGX Orin™ 32GB/64GB module
- DC 9–36V power input.
- 1 x GbE, 1 x 10GbE, and 2/4 x IEEE 802.3af GbE PSE ports
- Build in 1 x B-Key/1 x E-Key/1 x M-Key slot
- Out of Band function & recovery function support
- Operating Temperature -25°C ~ +70°C

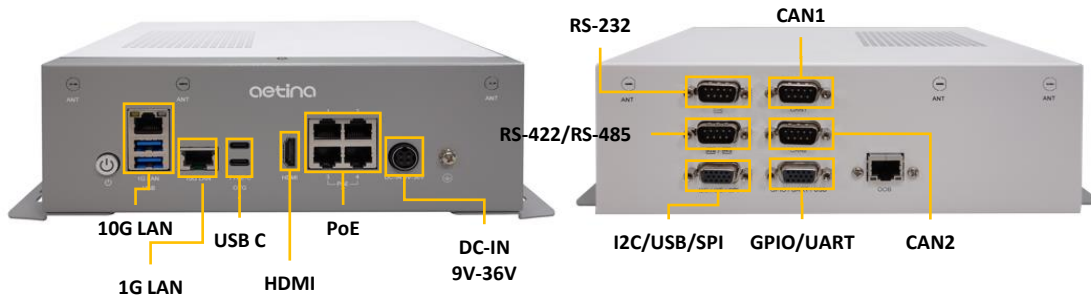
Specifications

Model Number	AIE-KX11/AIE-KX12	AIE-KX21/AIE-KX22
Module Compatibility	NVIDIA Jetson AGX ORIN 32GB	NVIDIA Jetson AGX ORIN 64GB
Storage	64GB eMMC 5.1	
Display	1 x HDMI Type A	
Audio	Line-out/Line-in/Mic (opt. with Daughter Board)	
LAN	1 x RJ-45 1GbE ports, 1 x RJ-45 10GbE port, 2/4 x RJ-45 IEEE802.3af GbE PSE ports	
USB	2 x USB 3.2 Gen1 Type A, 1 x USB 2.0 (DB-15), 1 x USB Type-C (OTG only), 1 x USB Type-C USB 3.2 Gen 1	
I/O Interfaces	2 x I2C, 1 x I2S, 1 x SPI, 5 x GPIO 1 x RS-232, 1 x RS-422 / RS-485 2 x CAN 2.0b	
Expansion	1 x M.2 B-Key 3042/3052 (LTE/5G - USB3) w/ micro sim holder: cellular function 1 x M.2 E-Key 2230 (PCIe/USB2): WIFI/BT function 1 x M.2 M-Key (NVMe) 2280: Storage 1 x microSD slot	
MISC. Function	1 x Power / Recovery (Optional) / 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: TBD (Connect With Keyboard, Mouse and HDMI Display) Full Loading: TBD (Connect with keyboard, mouse and HDMI display with CPU and GPU 100% loading)	
Dimension(Wx Dx H)	220 x 170 x 79mm	
Mounting	Wall Mount / Din Rail (Optional)	
Net Weight	1852g	
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: -20°C ~ +70°C Storage Temperature: -40°C ~ +85°C	
Humidity	5 to 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-KX11-1-A1	AIE-KX11 w/ AGX ORIN 32G, 1 x HDMI, 2 x USB-A, 1 x USB-MICRO AB, 1 x RJ-45 GbE PORT, 1 x RJ-45 10GbE PORT, 2 x RJ-45 IEEE802.3af GbE PSE PORT, 2 x FAN, 9 to 36V DC INPUT, -25°C to +70°C
AIE-KX21-1-A1	AIE-KX21 w/ AGX ORIN 64G, 1 x HDMI, 2 x USB-A, 1 x USB-MICRO AB, 1 x RJ-45 GbE PORT, 1 x RJ-45 10GbE PORT, 2 x RJ-45 IEEE802.3af GbE PSE PORT, 2 x FAN, 9 to 36V DC INPUT, -25°C to +70°C
AIE-KX12-1-A1	AIE-KX12 w/ AGX ORIN 32G, 1 x HDMI, 2 x USB-A, 1 x USB-MICRO AB, 1 x RJ-45 GbE PORT, 1 x RJ-45 10GbE PORT, 4 x RJ-45 IEEE802.3af GbE PSE PORT, 2 x FAN, 9 to 36V DC INPUT, -25°C to +70°C
AIE-KX22-1-A1	AIE-KX22 w/ AGX ORIN 64G, 1 x HDMI, 2 x USB-A, 1 x USB-MICRO AB, 1 x RJ-45 GbE PORT, 1 x RJ-45 10GbE PORT, 4 x RJ-45 IEEE802.3af GbE PSE PORT, 2 x FAN, 9 to 36V DC INPUT, -25°C to +70°C

Peripheral (Optional)

<https://www.aetina.com/wp-content/uploads/Datasheet/Aetina%20Peripherals%20List%20for%20Jetson%20Platforms%26Systems.pdf>

