Autonomous / DeviceEdge

Jetson System
AIE-VX28-IP
AIE-VX18-IP



Features

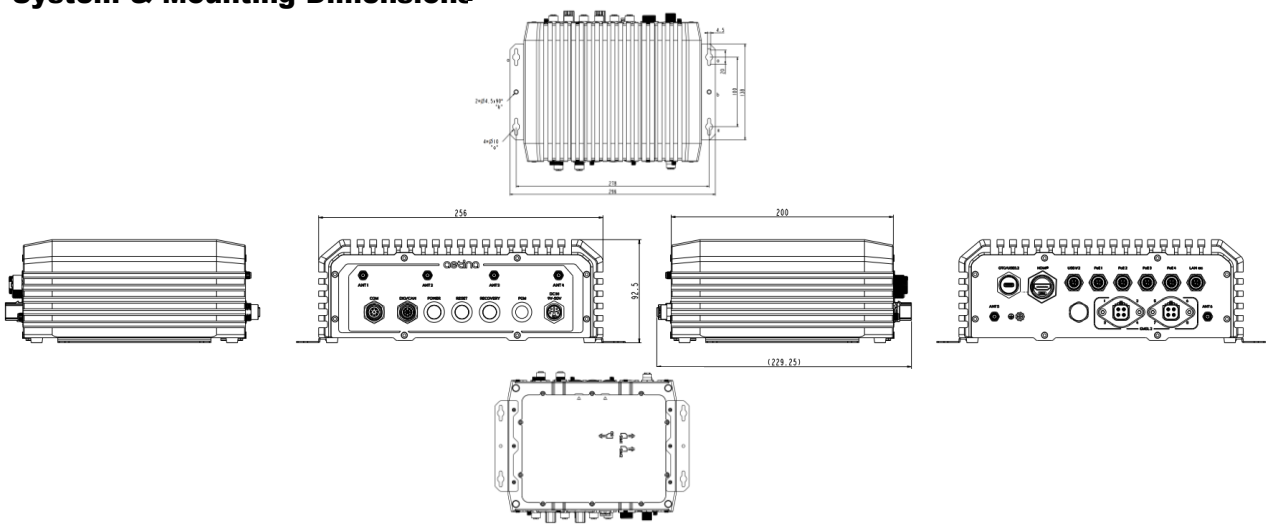
- Supports NVIDIA Jetson AGX Orin series
- IP66 fits in harsh environment
- Wide Power Input Range 9 to 48 VDC with ignition power control
- 4/8 x GMSL (Fakra-Z connectors for GMSL 1/2 automotive cameras)
- 4 x GbE M12 / 1 x 10GbE M12 / 2 x USB 2.0 M12 (lockable)
- 2 x CAN FD port / 3 x Serial ports / I2C / 4 x DI (Isolated) / 4 x DO
- Support M.2 B/E/M key expansion
- Support RTK function (Real Time Kinematic, expansion by M.2 B key)
- E-Mark compliance (E-24 certified)

Specifications

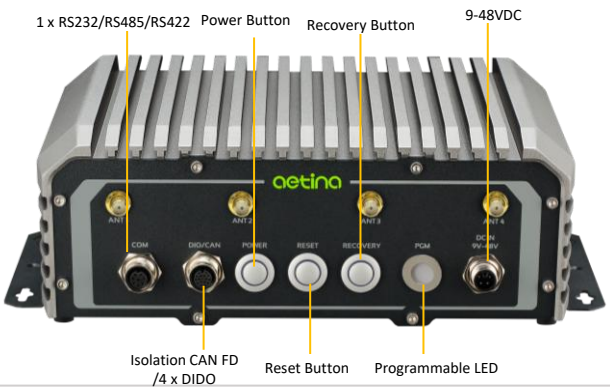
Model Number	AIE-VX28-IP	AIE-VX18-IP
Module Compatibility	NVIDIA Jetson AGX Orin 64GB	NVIDIA Jetson AGX Orin 32GB
AI Performance	275 TOPS	200 TOPS
GMSL	8 x GMSL2 via Fakra Z	8 x GMSL2 via Fakra Z
CPU	12-core Arm® Cortex®-A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3	8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
Memory	64GB 256-bit LPDDR5 204.8GB/s	32 GB 256-bit LPDDR5 204.8 GB/s
Storage	64GB eMMC 5.1	
Display	1 x HDMI Full HD /1080p Type A	
RTC	RTC battery x1	
LAN	4 x GbE by M12 connector (POE15W for per port, total 60W), 1 x 10GbE by M12 connector	
USB	2 x USB 2.0 Gen1 M12 lockable 1 x USB Type-C gen 1 M12 (OTG / USB 3.0)	
I/O Interfaces	2 x CAN (Isolation, Support CAN FD) 1 x RS232/RS485/RS422 (default R485) 4 x DI / 4x DO (isolate)	
Expansion	1 x M.2 B-Key 3042/3052 1 x M.2 E-Key 2230 1 x M.2 M-Key 2280 1x SD card slot 2 x Micro SIM Card	
MISC. Function	1 x Recovery Button, 1 x Reset Button	
Power Input / Connector	DC-in 9-48 VDC / 3-Pin (V+/V-/IGN) M12 with ignition power control Supports total 180W when input voltage at 9V. Supports total 200W when input voltage is between 12~48V.	
LED Indicator	1 x Power LED (w/ IGN), 1 x PGM (Programmable by user define)	
Dimension (W x D x H)	256 x 229.25 x 92.5 with rubber foot	
IP	IP66	
Net Weight	6.32kg	
Vibration	Operating, MIL-STD-810H, Method 514.8, Category 4	
Shock	Operating, MIL-STD-810H, Method 516.8, Procedure I	
Temperature	Operating Temp.: -25°C ~ +70°C with 0.5 m/s air flow; 30W TDP Mode (SOM Default) (w/o 10GbE Transmission and PoE Load) -25°C ~ +55°C with 0.5 m/s air flow with full function Storage Temp.: -40°C ~ +85°C	
Humidity	95% @ 40°C (104°F) (non-condensing)	
OS Support	Linux	
Certification	CE/ FCC Class A, according to EN 55032 & EN 55035 E-Mark (E-24)	

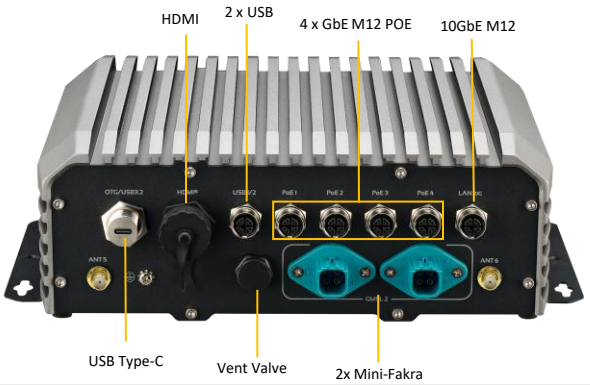
*Product Specifications Are Subject To Change Without Prior Notice

System & Mounting Dimensions



I/O Mechanical Layout





Ordering Information

Model name	Description
AIE-VX28-IP	AGX Orin 64GB, 1 x HDMI, 4 x GbE, 1 x 10GbE, 2 x USB, 2 x mini-Fakra, B/E/M Key, 9 to 48 VDC input, -25°C ~ +70°C
AIE-VX18-IP	AGX Orin 32GB, 1 x HDMI, 4 x GbE, 1 x 10GbE, 2 x USB, 2 x mini-Fakra, B/E/M Key, 9 to 48 VDC input, -25°C ~ +70°C

Packing List

Model name	Description
AIE-VX28-IP	AIE-VX28-IP / AGX Orin 64GB
AIE-VX18-IP	AIE-VX18-IP/ AGX Orin 32GB

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

Peripheral (Optional)

Model name	Description
53-0GA210-0003	Intel AX210 Wi-Fi 6E/BT Module
53-0LN990-0001	Telit M.2 5G/LTE Module
53-0DAS19-0000	POE CAMERA BASLER:ACA1920-48GC
53-0DAC13-0000	POE CAMERA BASLER:ACA1300-60GC
53-0DA219-0000	POE CAMERA BASLER:A2A1920-51GMPRO
53-0DA238-0000	POE CAMERA BASLER:A2A3840-13GCPRO
53-0DA253-0000	POE CAMERA BASLER:A2A5328-4GMPRO
53-0DAC24-0000	POE CAMERA BASLER:ACA2440-20GC
53-0DAC25-0000	POE CAMERA BASLER:ACA2500-14GC
53-0DAC40-0000	POE CAMERA BASLER:ACA4024-8GC
53-0DAC54-0000	POE CAMERA BASLER:ACA5472-5GC

Note: Certification by request..

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