

2023 - 2024
ARM-BASED
PLATFORM



www.vecow.com

Vecow

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Vecow Brief



Everyone deserves a better system...

Vecow at a Glance

Founded in 2010, Vecow is a team of embedded experts and we aim to be your trusted embedded business partner. Vecow is committed to designing, developing, producing, and supplying high quality AIoT solutions with trusted reliability, advanced technology, and innovative concepts. Our products include: AI-ready Inference Systems, AI Computing Systems, Fanless Embedded Systems, Vehicle Computing Systems, Robust Computing Systems, Single Board Computers, Multi-Touch Computers/Displays, Frame Grabbers, Embedded Peripherals and Design & Manufacturing Services for Machine Vision, Autonomous Vehicle, Smart Robotics, Digital Rail, Public Security, Transportation & V2X, Smart Factory, Deep Learning, and any Edge AI applications.

Autonomous Vehicle



Making driving safer and greener while delivering higher traffic efficiency and connection.

Smart Robotics



Enabling the evolution of industry towards smarter, safer, and more efficient factories.

Digital Rail



Making your rail journey safer, more enjoyable and connected through digital rail.

Your Trusted Embedded Business Partner



Smart **Edge AI** Solution Services

An Intelligent Future Made Possible

Public Security



Building a safer, more comfortable for better living from contact-free technologies.

Transportation & V2X



Delivering safe, robust, reliable, and efficient transportation management.

Smart Factory



Accelerating the performance operations across machines and utilizing AI tools for digital factory.

Core Competencies

With seasoned edge computing professionals, leading integrated product features, flexible tailor-made services and one-stop comprehensive solution, Vecow serves trusted products and services to make AI-oriented IoT infrastructure and performance-driven edge computing applications possible.



Leading Expertise

Vecow is a team of experienced embedded computing experts in product planning, design & development, manufacturing, sales & marketing and after service field. We target the latest performance-driven computing solution to make your real-time edge AI applications possible anytime anywhere. With years of embedded domain know-how learning from worldwide successful projects, we study, plan, design, produce, and fine-tune our deliveries armed with top-tier performance and optimized user's experiences for Machine Vision, Autonomous Vehicle, Smart Robotics, Digital Rail, Public Security, Transportation & V2X, Smart Factory, Deep Learning, and any Edge AI applications.

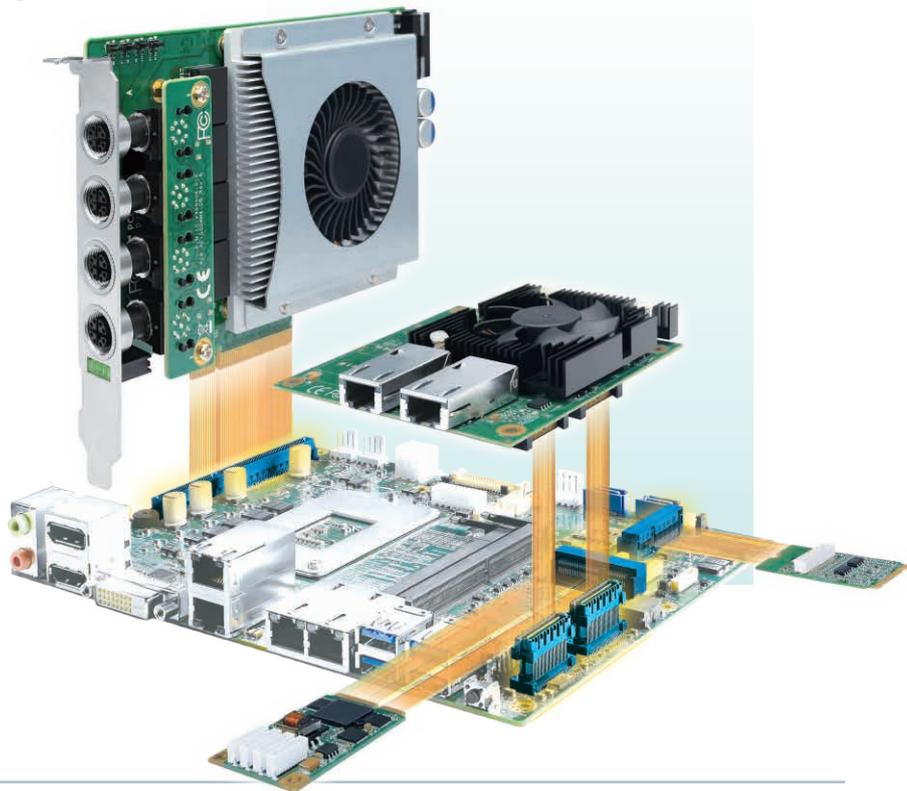
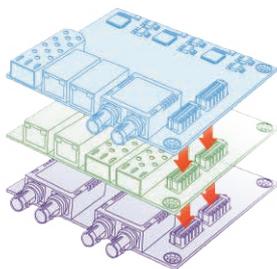


Compact Design

Charactered with system-oriented features, such as fanless design, wide-range operating temperature, workable wide-range power input, smart circuit protection, user-friendly feature, cable-less & all-in-one single-board design, small form factor, and leading system performance, Vecow embedded computers are compact integrated and highly-reliable engines to meet various requirements of performance-driven vertical applications even in harsh environments.

Easy Customization

Based on Vecow original design concepts, standard product deliveries, new solution features, and any of our technical achievements, we are willing to carry out innovative ideas with new extension delivery for you. Seasoned Vecow Design & Manufacturing Service team offers quality and professional tailor-made service to you with well-organized project status, less project design, research & development efforts, reduced total cost of project ownership (TCO) and even faster time-to-market.



Top Tier Ecosystem

Flexible Teamwork

Vecow manages close relationship with our business partners to maintain our technical footprint, supplier management and new business opportunities. Our in-house embedded expertise covers product planning & management, hardware design & engineering, BIOS engineering, software design & engineering, mechanical engineering, design quality assurance, product manufacturing, procurement management, production management, quality assurance, field application engineering and after services. Supported by world-leading ecosystem and skillful embedded expertise, Vecow delivers one-stop integrated, speedy, quality and flexible solutions to meet your project requirements.

Compact and Performance-Driven

NVIDIA Jetson Solutions

In-Vehicle Computing

- Video encoding up to 4K60 and decoding up to 8K30
- Isolated CAN-FD and digital input output enable secure communications
- 8 GMSL automotive cameras for long distance with low latency
- In-band and out-of-band management for remote device control



Jetson AGX Computing Systems

Jetson AGX Orin



EAC-5000

- Up to 275 TOPS AI performance
- 8 GMSL, 2 GigE RJ45 (M12 X-coded)
- 1 PCIe x8 slot for 10GigE/PoE/USB Card

Jetson AGX Xavier



EAC-3000

- Up to 32 TOPS AI performance
- 8 GMSL, 5 GigE LAN with 4 PoE+
- 4 USB 3.1, 2 Digital Display

Serves Flexible Configurations & Features In-Vehicle Ready Functions



aiixon

Allied Vision

e-con Systems
Think Camera, Think e-con.

EDOM
TECHNOLOGY CO., LTD.

oToBrite

 PARTNER

Autonomous Mobile Robot

- GMSL, MIPI CSI-2, USB and PoE+ wide variety of cameras
- Multiple M.2 expansion slots for flexible configurations
- Ruggedized USB and M12 X-coded to prevent loosening
- NVIDIA ISSAC and Deepstream SDK for robotics applications

Jetson NX Computing Systems

Jetson Orin NX



EAC-6000

- Up to 100 TOPS AI performance
- 4 GMSL/ MIPI CSI-2/ PoE+ RJ45 LAN
- 2 COM, 2 M.2 Key B expansions

Jetson Xavier NX



EAC-2000

- Up to 21 TOPS AI performance
- 4 GMSL, 4 GigE with 2 PoE+, 4 USB 3.1
- 2 COM, 1 CAN, M.2 expansions

Target SDGs

Dozens of countries have put forward “2050 Net-Zero Emissions” declarations and actions. To achieve net zero, companies can adopt demonstrated emission reduction measures to target emissions across their value chain and invest in innovative zero-carbon technologies. VHub ESG Solutions for Smart Factory help accelerate the transformation of manufacturing industries and bring competitiveness and environmental sustainability to meet the “Net-Zero” policy. Vecow VHub ESG solutions adopt digital technologies such as IoT Technology, Vision AI and AutoML.

Facility Management



Workforce Management



Environment Monitoring

Combining intelligent sensors and the Vecow EMS solution provides real-time energy status, analyzes data, alerts, and predicts maintenance for the OT devices.



Dynamic Analysis

Optimized using vision AI software tools in RTSP/ONVIF, the Vecow VHub AI Developer Premium creates efficient ways for production line and enhances productivity.



Health Care

AI-powered smart cameras with OpenVINO and integrating Vecow Fever Scan Solutions, a contactless technology, factories can ensure workplace safety, hygiene and greater efficiency.



M2M DAQ

To minimize the energy demands of Edge devices, Vecow Edge Gateway supports IOtech, a software-based solution, and provides AI performance, making the digital factory possible.



AI Data Analysis



Anomaly Detection



Parameter Optimization



Power Consumption Prediction



Resource Optimization

VHub ESG Solutions provide various AI tools to predict equipment maintenance schedule and optimize production capacity through facility parameters like water, oil and power at the edge. It helps the manufacturing industry improve the process, product quality and reduce costs.



Protocol & SDKs	
Vision AI Development	Machine & Sensor DAQ
 TCP/IP OpenVINO	
Reliable Ecosystem & Partners	

Recommend AIoT Solution

Inference Platform	
 VAC-1100 <ul style="list-style-type: none"> Foxconn Cortex-A53 Server-grade Computing Compact Hailo-8™ AI Accelerator, up to 26 TOPS 	 EAC-3000 <ul style="list-style-type: none"> Small form factor, max 32 TOPS AI performance 5 GigE LAN with 4 PoE+, 2 CAN Bus support Flexible Data-rate
Edge Gateway	
 AIC-100 <ul style="list-style-type: none"> NXP i.MX6ULL Arm Cortex-A7 Platform 512MB SDRAM, 512MB Flash 	 EIC-2000 <ul style="list-style-type: none"> NXP i.MX 8M Plus Arm Cortex-A53 Platform Embedded Neural Processing Unit, max 2.3 TOPS AI performance

Target SDGs

Energy Management

With the post-pandemic and the global environment facing many uncertainties and challenges, solution featuring energy-efficient with low-power computation plays a role in helping manufacturing industries to achieve digital transformation.

Vecow VHub Energy Management Solution Service provides a smart power management platform by one-stop solution. VHub EMS delivers real-time power consumption analysis to monitor operating status, alert trouble issues and even predict maintenance schedule.



Platform Functions



Real-time Dashboard

Real-time information for total energy usage and highlight abnormal devices.



Carbon Emission Ranking

Precise reports for analyzing the carbon emission factor in company.



Power Usage Analysis

Real-time power usage chart to calculate the power expansion.



Alarm Notification

Multiple abnormal setting and notifications to prevent power lost.

Feature Highlights



Easy Installation

- Wireless Clamp Sensor
- Non-Stop Operation



GUI Management

- Versatile Charts & Reports
- Real-time Analyzer



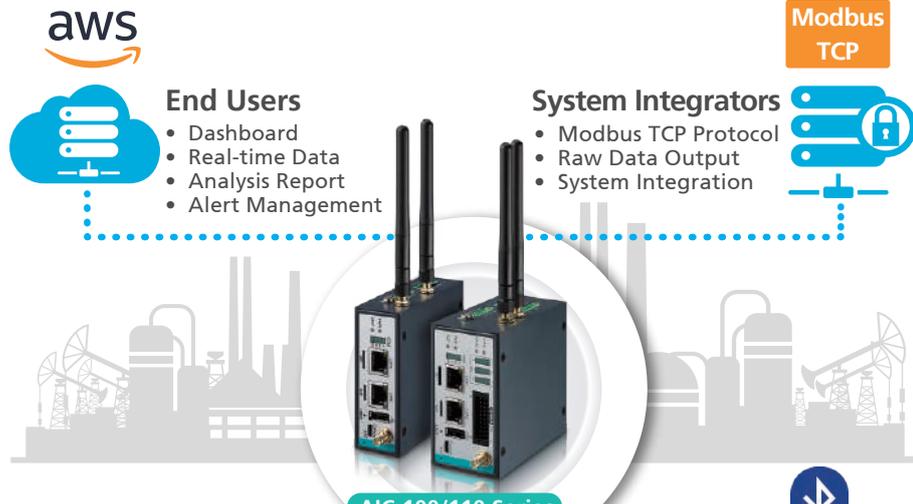
Alert Monitoring

- Multiple Menu Setting
- APP Notification



Integrated Platform

- Multiple Remote Devices
- Cross Factory Areas



Recommend IoT Data Solution

Edge Gateway



AIC-100 Rugged Embedded System

- NXP i.MX6ULL Arm Cortex-A7 Platform
- 512MB SDRAM, 512MB Flash
- 2 LAN, 1 USB 2.0, 2 COM RS-232/485, 1 Micro SD, 1 Mini PCIe
- DC 9V to 50V, Compact & Fanless, -25°C to 70°C Operation

Edge AI Computing

Series		NVIDIA Jetson Platform			
Model No.		EAL-1000	EAC-5000	EAC-3000/3000F	EAC-6000
Product Image					
System	CPU	Up to 24-core Arm® Cortex® -A78AE v8.2 64-bit CPU	Up to 12-core Arm® Cortex® -A78AE v8.2 64-bit CPU	8-core NVIDIA Carmel ARM® v8.2 64-bit CPU	Up to 8 core A78AE CPU, 2.0 GHz
	GPU	Up to 4096-core NVIDIA Ampere™ architecture GPU with up to 128 Tensor Cores	Up to 2048-core NVIDIA Ampere™ architecture GPU with 64 Tensor Cores	512-cores NVIDIA Volta™ GPU with 64 Tensor cores	Up to 1024 NVIDIA Ampere™ architecture GPU with 32 Tensor Cores
	AI Accelerator	Up to 4x NVDLA Engines	2x NVDLA Engines	2x NVDLA Engines	Up to 2x NVDLA Engines
	Memory	Up to 128GB LPDDR5 DRAM	Up to 64GB LPDDR5 DRAM	Up to 64GB LPDDR4x DRAM	Up to 16GB LPDDR5 DRAM
	eMMC	128GB	64GB	64GB	NA
	Ethernet	NA	RealTek RTL8211F, Intel® I210	Microchip LAN7800, Intel® I210	Intel® I210
	OS Support	Linux Ubuntu 20.04	Linux Ubuntu 20.04	Linux Ubuntu 18.04	Linux Ubuntu 20.04
Graphics	Video Encode	- HEVC : 2x4K @60 - H.264 : 1x4K @60	- HEVC : 2x4K @60 - H.264 : 1x4K @60	- HEVC : 4x4K @60 - H.264 : 4x4K @60	-HEVC: 1x 4K @60 -H.264: 1 x 4K @60
	Video Decode	- HEVC : 1x8K @30 - H.264 : 1x4K @60	- HEVC : 1x8K @30 - H.264 : 1x4K @60	- HEVC : 2x8K @30 - H.264 : 4x4K @60	-HEVC: 1x 8K @30 -H.264: 1 x 4K @60
Camera	GMSL	NA	8	8	4 (Optional)
Display I/O	Digital Display	2 (1 Internal)	1	2	1
I/O Interface	Serial	2 RS232/422/485	2 RS232/422/485	2 RS-232/422/485	2 RS 232/422/485
	USB 3.0/3.1/3.2	1 USB 3.0, 1 USB Type C	5	4	3
	USB 2.0	2 USB 2.0	1 (Micro USB w/ OTG)	1 (Micro USB w/ OTG)	1 (Micro USB w/ OTG)
	GigE LAN	1	2	5 (4 w/ PoE*)	4 (4 w/ PoE++)
	PoE LAN	NA	NA	4 (IEEE 802.3at)	4 (IEEE 802.3at, Optional)
	M12	NA	2 (X-coded, Optional)	NA	4 (X-coded, Optional)
	CAN Bus	2 CAN-FD	2 CAN-FD (Isolated)	2 CAN-FD (Isolated)	1 CAN-FD (Optional)
	Audio	NA	NA	NA	NA
	Isolated DIO/ GPIO	NA	16 (8 DI, 8 DO)	NA	6 GPIO (Optional)
	Console	1 (Micro USB)	1 (Micro USB)	1 (Micro USB)	1 (Micro USB)
Storage	SATA III	NA	NA	NA	NA
	M.2	1 Key M 2280	2 Key M 2280	1 Key M 2280	1 Key M 2280
	Micro SD	1	1	1	NA
Expansion	Mini PCIe	NA	NA	NA	NA
	SIM Card	1 (External)	2 (External)	2 (External)	2 (External)
	M.2	- 1 Key B 3042/3052 - 1 Key E 2230	- 1 Key B 3042/3052 - 1 Key E 2230	- 1 Key B 3042/3052 - 1 Key E 2230	- 2 Key B 3042/3052 - 1 Key E 2230
	SUMIT	NA	NA	1 (Optional)	NA
Power	Input	DC-in 12V to 24V	DC-in 9V to 50V	DC-in 9V to 50V	DC-in 9V to 50V
	Connector	Terminal Block	Terminal Block	Terminal Block	Terminal Block
	Ignition Control	Yes (SW IGN)	Yes (SW IGN)	Yes (SW IGN)	Yes (SW IGN)
	Remote Switch	Yes	Yes	Yes	Yes
Dimensions (W x L x H)		260 x 197 x 81.5 mm (10.2" x 7.8" x 3.2")	260 x 182 x 70 mm (10.2" x 7.2" x 2.7")	213 x 150 x 60 mm (8.4" x 5.9" x 2.4")	170 x 118 x 65 mm (6.7" x 4.6" x 2.6")
Weight		4.5 kg (9.9 lb)	3.8 kg (8.4 lb)	2.4 kg (5.3 lb)	1.5 kg (3.3 lb)
Mounting		Wallmount, DIN Rail	Wallmount, DIN Rail	Wallmount, DIN Rail	Wallmount, DIN Rail
Operating Temperature		-20°C to 55°C (-4°F to 131°F)	-20°C to 70°C (-4°F to 158°F)	-20°C to 70°C (-4°F to 158°F)	-20°C to 70°C (-4°F to 158°F)
Storage Temperature		-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)
Humidity		5% to 95%, non-condensing	5% to 95%, non-condensing	5% to 95%, non-condensing	5% to 95%, non-condensing
Vibration		MIL-STD-810G	MIL-STD-810G	MIL-STD-810G	MIL-STD-810G
Shock		MIL-STD-810G	MIL-STD-810G	MIL-STD-810G	MIL-STD-810G
Certification		CE, FCC, EN50155, EN50121-3-2	CE, FCC, EN50155, EN50121-3-2	CE, FCC, EN50155, EN50121-3-2	CE, FCC, EN50155, EN50121-3-2

		RISC/Edge AI Computing			
EAC-2100	EAC-2000	EIC-2000	EIC-1000	VAC-1100	VAC-1000
					
6-core NVIDIA Carmel ARM® v8.2 64-bit CPU	6-core NVIDIA Carmel ARM® v8.2 64-bit CPU	NXP i.MX8M Plus Arm® Quad-core Cortex®-A53	Rockchip RK3399 Arm® Dual-core Cortex-A72 + Quad-core Cortex-A53	Foxconn FXN3102 Arm® 24-core Cortex-A53 Processor	Foxconn FXN3102 Arm® 24-core Cortex-A53 Processor
384-core NVIDIA Volta™ GPU with 48 Tensor Cores	384-core NVIDIA Volta™ GPU with 48 Tensor Cores	GC7000UL	ARM Mali-T860MP4	NA	NA
2x NVDLA Engines	2x NVDLA Engines	NN Accel, Max 2.3 TOPS	NA	Hailo-8™ AI Processor, Max 26 TOPS	Lightspeur® 2801S, Max 5.6 TOPS
Up to 16GB LPDDR4x DRAM	Up to 16GB LPDDR4x DRAM	4GB LPDDR4 SDRAM	2GB DDR3L SDRAM	16GB DDR4 with ECC	16GB DDR4 with ECC
16GB	16GB	32GB	32GB	64GB	64GB
Intel® I350	Intel® I350	Realtek RTL8211F	RealTek RTL8211E	Realtek RTL8211F	Realtek RTL8211F
Linux Ubuntu 18.04	Linux Ubuntu 18.04	Ubuntu 20.04	Linux Debian 9.0, Android 7.1	Linux Ubuntu 18.04	Linux Ubuntu 18.04
- HEVC : 2x 2K @60 - H.264 : 2x 2K @60	- HEVC : 2x 2K @60 - H.264 : 2x 2K @60	- HEVC : 1080p @60 - H.264 : 1080p @60	- H.264 : 1080p @30	NA	NA
- HEVC : 2x 4K @30 - H.264 : 2x 2K @60	- HEVC : 2x 4K @30 - H.264 : 2x 2K @60	- HEVC : 1080p @60 - H.264 : 1080p @60	- HEVC : 1080p @60 - H.264 : 1080p @60	NA	NA
4	NA	NA	NA	NA	NA
1	1	1	1	NA	NA
2 RS-232/485	2 RS-232/485	2 RS-232/422/485	2 RS-232/422/485	NA	NA
4	4	2	1	2	2
1 (Micro USB w/ OTG)	1 (Micro USB w/ OTG)	NA	1 (Internal)	NA	NA
4 (2 w/ PoE*)	4 (2 w/ PoE*)	2	1	2	2
2 (IEEE 802.3at)	2 (IEEE 802.3at)	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
1 CAN Bus	NA	2 (Optional)	NA	NA	NA
NA	NA	1 Mic-in, 1 Line-out	1 Mic-in, 1 Line-out	NA	NA
NA	NA	4 (Optional)	NA	NA	NA
1 (Micro USB)	1 (Micro USB)	1 (Micro USB)	NA	1 (Micro USB)	1 (Micro USB)
NA	NA	NA	NA	1	1
1 Key M 2280	1 Key M 2280	NA	NA	1 Key M 2280	1 Key M 2280
1	1	1	1	NA	NA
NA	NA	1	1	NA	NA
1 (External)	1 (External)	2	1	NA	NA
- 1 Key B 3042/3052 - 1 Key E 2230	- 1 Key B 3042/3052 - 1 Key E 2230	1 Key B 3042/3052	NA	NA	NA
NA	NA	NA	NA	NA	NA
DC-in 9V to 50V	DC-in 9V to 50V	DC-in 9V to 55V	DC-in 9V to 55V	DC-in 9V to 55V	DC-in 9V to 55V
Terminal Block	Terminal Block				
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
150 x 106 x 62 mm (5.9" x 4.2" x 2.4")	150 x 106 x 50 mm (5.9" x 4.2" x 2.0")	130 x 78.5 x 42 mm (5.1" x 3.1" x 1.7")	136 x 110 x 47 mm (5.4" x 4.3" x 1.8")	170 x 118 x 40 mm (6.7" x 4.6" x 1.6")	170 x 118 x 40 mm (6.7" x 4.6" x 1.6")
1.3 kg (2.9 lb)	1.2 kg (2.6 lb)	0.5 kg (1.1 lbs)	0.4 kg (0.9 lb)	0.9 kg (2.0 lb)	0.9 kg (2.0 lb)
Wallmount, DIN Rail	Wallmount, DIN Rail				
-20°C to 65°C (-4°F to 149°F)	-20°C to 70°C (-4°F to 158°F)	-25°C to 70°C (-13°F to 158°F)	0°C to 70°C (32°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)
5% to 95%, non-condensing	5% to 95%, non-condensing				
MIL-STD-810G	MIL-STD-810G	MIL-STD-810G	MIL-STD-810G	MIL-STD-810G	MIL-STD-810G
MIL-STD-810G	MIL-STD-810G	MIL-STD-810G	MIL-STD-810G	MIL-STD-810G	MIL-STD-810G
CE, FCC, EN50155, EN50121-3-2	CE, FCC, EN50155, EN50121-3-2				

1
Edge AI Computing

2
IoT Gateway

3
System On Module (SOM)

4
Industrial Multi-Touch Computers

5
Embedded Peripherals

EAC-5000

NVIDIA® Jetson AGX Orin™ Embedded AI Computing System



Features

- Advanced NVIDIA® Jetson AGX Orin™ platform delivers up to 275 TOPS AI performance
- The latest NVIDIA Ampere™ architecture, featuring with 2048 NVIDIA® CUDA® cores and 64 Tensor cores
- Supports 8 GMSL 1/2 automotive cameras with Fakra-Z connectors
- 1 PCIe Gen4 x8 expansion slot supports optional multiple 10GigE/PoE LAN/USB connections
- 2 Isolated CAN Bus support Flexible Data-rate, 2 COM RS-232/422/485
- 2 GigE LAN, 5 USB 3.1, 1 Digital Display supports 8K60
- Supports device remote management by Allxon
- DC 9V to 50V wide range power input, Ignition Power Control



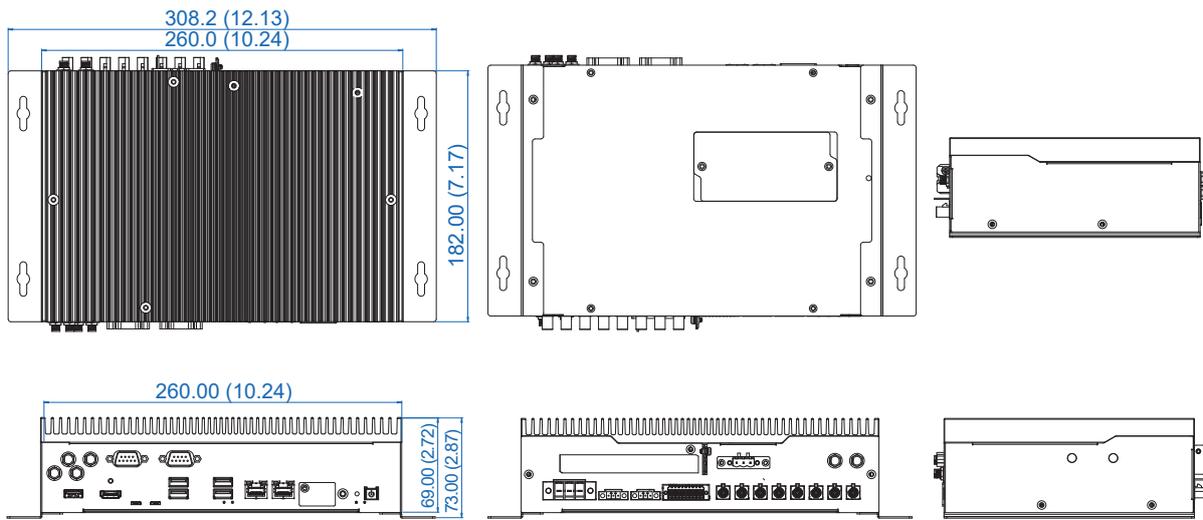
Specifications

System	
CPU	EAC-5000-R32 : 8-core Arm® Cortex®-A78AE v8.2 64-bit CPU EAC-5000-R64 : 12-core Arm® Cortex®-A78AE v8.2 64-bit CPU
GPU	EAC-5000-R32 : 1792-core NVIDIA Ampere™ architecture GPU with 56 Tensor Cores EAC-5000-R64 : 2048-core NVIDIA Ampere™ architecture GPU with 64 Tensor Cores
DL Accelerator	2x NVDLA Engines
Memory	EAC-5000-R32 : 1 32GB LPDDR5 DRAM EAC-5000-R64 : 1 64GB LPDDR5 DRAM
OS	Linux Ubuntu 20.04 with JetPack
I/O Interface	
USB	<ul style="list-style-type: none"> ▪ 1 USB 3.1 Gen 2, supports up to 10Gbp ▪ 4 USB 3.1, support up to 5Gbps
Serial	2 COM RS-232/422/485
CAN Bus	2 Isolated CAN Bus support CAN FD
DIO	16 Isolated DIO (8 DI, 8 DO)
Micro USB	<ul style="list-style-type: none"> ▪ 1 Micro USB console debug port ▪ 1 Micro USB OS flash port
Button	<ul style="list-style-type: none"> ▪ 1 Power Button ▪ 1 Force Recovery Button ▪ 1 Reset Button
LED	Power, HDD, 2 User Programmable
SIM	2 SIM Card Socket
Antenna	6 Antenna for WIFI/4G/5G/LTE/GPRS/UMTS
Expansion	
PCIe Slot	1 PCIe Gen4 x8 Slot
M.2	<ul style="list-style-type: none"> ▪ 1 M.2 Key B Socket (3042/3052) ▪ 1 M.2 Key E Socket (2230)
Graphics	
Interface	1 Digital Display, up to 8K60
Video Encode	EAC-5000-R32 : 1x 4K @60, 3x 4K @30, 6x 1080p @60, 12x 1080p @30 (HEVC) EAC-5000-R64 : 2x 4K @60, 4x 4K @30, 8x 1080p @60, 16x 1080p @30 (HEVC)
Video Decode	EAC-5000-R32 : 1x 8K @30, 2x 4K @60, 4x 4K @30, 9x 1080p @60, 18x 1080p @30 (HEVC) EAC-5000-R64 : 1x 8K @30, 3x 4K @60, 7x 4K @30, 11x 1080p @60, 22x 1080p @30 (HEVC)

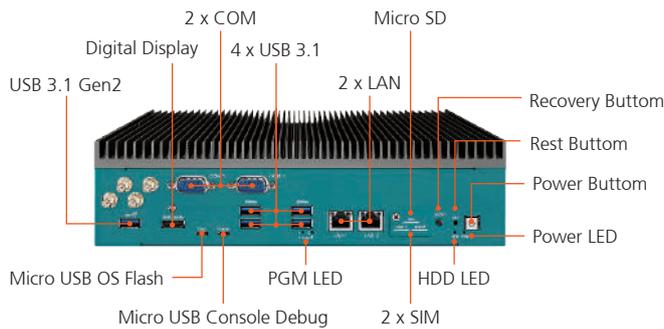
Camera	
GMSL	8 Fakra-Z connectors for GMSL 1/2 automotive cameras
Storage	
M.2	2 M.2 Key M Socket (2280)
eMMC	1 eMMC 5.1, 64GB
SD	1 Micro SD (External)
Ethernet	
LAN 1 to LAN 2	10/100/1000 Base-T Ethernet GigE LAN, RJ45 Connector (Optional X-coded M12 Connector)
Power	
Power Input	DC 9V to 50V
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Ignition Control	16-mode Software Ignition Control
Remote Switch	3-pin Remote Switch Terminal Block
OOB Management	Remote Power On/Off and Remote Reset Control (Optional)
Mechanical	
Dimensions (W x L x H)	260 mm x 182 mm x 69 mm (10.23" x 7.16" x 2.72")
Weight	3.8 kg (8.39 lb)
Mounting	<ul style="list-style-type: none"> ▪ Wallmount ▪ DIN Rail and VESA Mount (Optional)
Environment	
Operating Temp.	30W TDP Mode : -20°C to 70°C (-4°F to 158°F) MAXN TDP Mode : -20°C to 55°C (-4°F to 131°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @70°C
Shock	Operating, MIL-STD-810G, Method 516.7, Procedure I
Vibration	Operating, MIL-STD-810G, Method 514.7, Procedure I, Category 4
EMC	CE, FCC, EN50155, EN50121-3-2

Dimensions

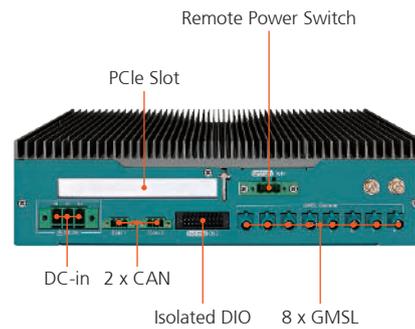
Unit : mm/ inch



Front I/O



Rear I/O



Order Information

Model Name	Platform	RAM	LAN	USB 3.1	Serial	Iso. CAN	Iso. DIO	PCIe Slot	GMSL	SIM	M.2
EAC-5000-R32	Jetson AGX Orin	32GB	2	5	2	2	16	1	8	2	4
EAC-5000-R64		64GB									

Accessories

PWA-160WB-WT	160W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
PWA-180WB	180W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
PWA-280WB-WT	280W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
VESA Mount	VESA Mounting Kit
DIN-RAIL	DIN Rail and VESA Mounting Kit
GMSL Camera Kit	GMSL Camera with Fakra-Z connector
M.2 Storage Module	M.2 Key M/Key B PCIe Storage Module
5G Module	5G Module with Antenna
4G Module	4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna
OOB Module	On-board Out-of-Band Management Module

1 Edge AI Computing

2 IoT Gateway

3 System On Module (SOM)

4 Industrial Multi-Touch Computers

5 Embedded Peripherals

EAC-3000/3000F

NVIDIA® Jetson AGX Xavier™ Edge AI Computing System



Features

- Compact NVIDIA® Jetson AGX Xavier™ supports workstation-grade up to 32 TOPS AI performance with rich AI tools and workflows
- NVIDIA Volta architecture with 512 NVIDIA® CUDA® cores and 64 Tensor cores
- DC 9V to 50V wide range power input, Ignition Power Control
- 5 GigE LAN with 4 PoE+, 4 USB 3.0, 2 Digital Display
- Supports 8 GMSL2 automotive cameras with Fakra-Z
- 2 CAN Bus support Flexible Data-rate, 2 COM RS-232/422/485
- M.2 supports 5G/4G/LTE/WiFi/BT/GPS
- Support 24/7 secure remote monitoring, control, and OTA deployment empowered by Allox



Specifications

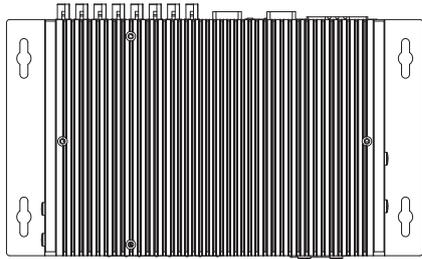
System	
CPU	8-core NVIDIA Carmel ARM® v8.2 64-bit CPU
GPU	NVIDIA Volta architecture with 512 NVIDIA® CUDA® cores and 64 Tensor cores
DL Accelerator	2x NVDLA Engines
Memory	1 LPDDR4x DRAM, Up to 64GB
OS	Linux Ubuntu 18.04 with JetPack
I/O Interface	
USB	4 USB 3.0 Type A
Serial	2 COM RS-232/422/485
CAN Bus	2 CAN Bus support CAN FD (Optional Isolation)
Micro USB	<ul style="list-style-type: none"> ▪ 1 Micro USB console debug port ▪ 1 Micro USB OS flash port
Button	<ul style="list-style-type: none"> ▪ 1 Power Button ▪ 1 Force Recovery Button ▪ 1 Reset Button
LED	Power, HDD, 2 User Programmable
SIM	2 SIM Card Socket
Antenna	6 Antenna for WiFi/4G/5G/LTE/GPRS/UMTS
Expansion	
M.2	<ul style="list-style-type: none"> ▪ 1 M.2 Key B Socket (3042/3052) ▪ 1 M.2 Key E Socket (2230)
Graphics	
Interface	2 Digital Display, up to 4Kx2K @30Hz
Video Encode	<ul style="list-style-type: none"> ▪ HEVC : Up to 4x4K @60, 8x4K @30, 16x1080p @60, 32x1080p @30 ▪ H.264 : Up to 4x4K @60, 8x4K @30, 14x1080p @60, 30x1080p @30
Video Decode	<ul style="list-style-type: none"> ▪ HEVC : 2x8K @30, 6x4K @60, 12x4K@30, 26x1080p @60, 52x1080p @30 ▪ H.264 : 4x4K @60, 8x4K @30, 16x1080p @60, 32x1080p @30
Camera	
GMSL	8 Fakra-Z connectors for GMSL 1/GMSL 2 automotive cameras

Storage	
M.2	1 M.2 Key M Socket (2280)
eMMC	1 eMMC 5.1, 32GB
SD	1 Micro SD (External)
Ethernet	
LAN 1	10/100/1000 Base-T Ethernet GigE LAN, RJ45 Connector
PoE	
LAN 2 to LAN 5	IEEE 802.3at (25.5W/48V) GigE PoE+ LAN, RJ45 Connector
Power	
Power Input	DC 9V to 50V
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Ignition Control	16-mode Software Ignition Control
Remote Switch	3-pin Remote Switch Terminal Block
Mechanical	
Dimensions	212.6mm x 149.0mm x 60.4mm (8.37" x 5.87" x 2.38")
Weight	2.4 kg (5.29 lb)
Mounting	<ul style="list-style-type: none"> ▪ Wallmount ▪ DIN Rail Mount (Optional)
Environment	
Operating Temp.	30W TDP Mode : -20°C to 70°C (-4°F to 158°F), Fanless MAX TDP Mode : -20°C to 70°C (-4°F to 158°F), with Fan Sink
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @70°C
Shock	Operating, MIL-STD-810G, Method 516.7, Procedure I
Vibration	Operating, MIL-STD-810G, Method 514.7, Procedure I, Category 4
EMC	CE, FCC, EN50155, EN50121-3-2

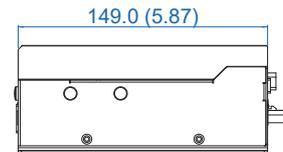
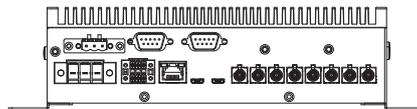
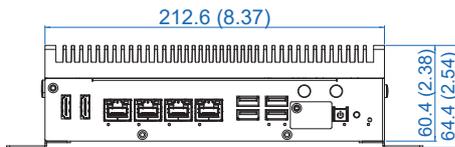
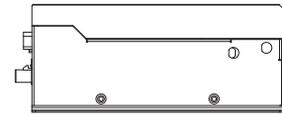
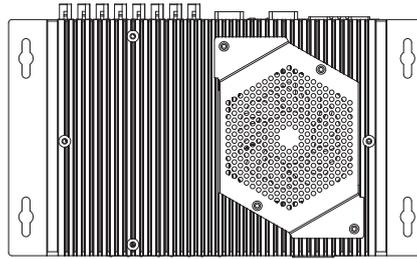
Dimensions

Unit : mm/ inch

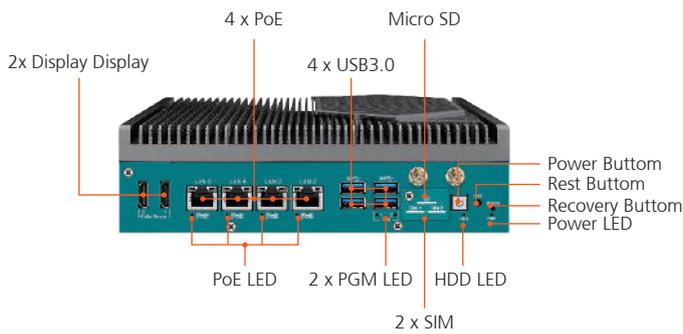
EAC-3000



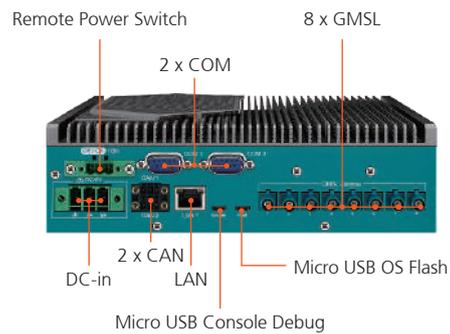
EAC-3000F



Front I/O



Rear I/O



Order Information

Model Name	Platform	RAM	LAN	PoE+	USB 3.0	M.2	Serial	SIM	CAN	GMSL
EAC-3000-R64	Jetson AGX Xavier	64GB	5	4	4	3	2	2	2	8
EAC-3000-R32		32GB								

Accessories

PWA-160WB-WT	160W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
PWA-180WB	180W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
PWA-280WB-WT	280W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
VESA Mount	VESA Mounting Kit
DIN-RAIL	DIN Rail and VESA Mounting Kit
GMSL Camera Kit	GMSL Camera with Fakra-Z connector
M.2 Storage Module	M.2 Key M/Key B PCIe Storage Module
5G Module	5G Module with Antenna
4G Module	4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

1 Edge AI Computing

2 IoT Gateway

3 System On Module (SOM)

4 Industrial Multi-Touch Computers

5 Embedded Peripherals

EAC-2100

NVIDIA® Jetson Xavier™ NX Edge AI Computing System



Features

- Small form factor NVIDIA® Jetson Xavier™ NX supports up to 21 TOPS AI performance
- Advanced NVIDIA Volta™ architecture with 384 NVIDIA® CUDA® cores and 48 Tensor cores
- 4 GigE LAN with 2 PoE+, 4 USB 3.1, 1 Digital Display
- Supports 4 GMSL2 automotive cameras with Fakra-Z
- M.2 for 5G/4G/LTE/WiFi/BT/GPRS/UMTS
- Storage : M.2 PCIe NVMe SSD, External Micro SD
- DC 9V to 50V wide range power input
- Support 24/7 secure remote monitoring, control, and OTA deployment empowered by Allxon



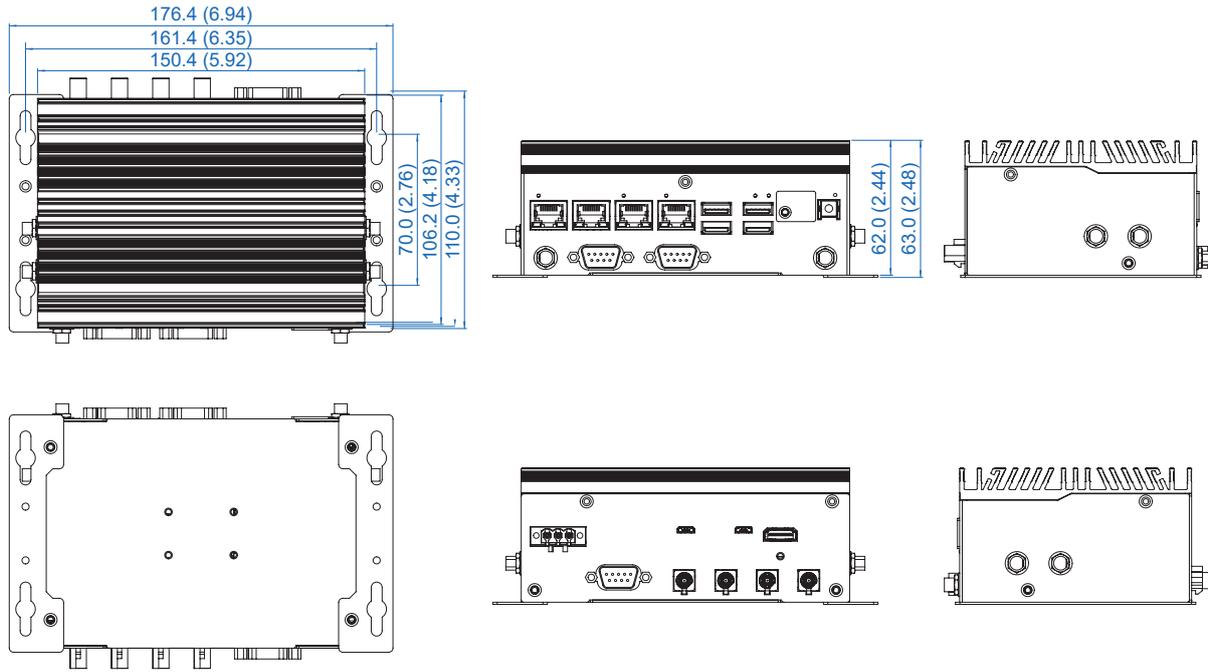
Specifications

System	
CPU	6-core NVIDIA Carmel ARM® v8.2 64-bit CPU
GPU	384-core NVIDIA Volta™ GPU with 48 Tensor Cores
DL Accelerator	2x NVDLA Engines
Memory	1 LPDDR4x DRAM, 8GB
OS	Linux Ubuntu 18.04 with JetPack
I/O Interface	
USB	4 USB 3.1 Type A
Serial	2 COM RS-232/485
CAN Bus	1 CAN Bus 2.0 A/B
Micro USB	<ul style="list-style-type: none"> ▪ 1 Micro USB console debug port ▪ 1 Micro USB OS flash port
Button	<ul style="list-style-type: none"> ▪ 1 User-Define Button ▪ 1 Force Recovery Button
LED	2 PoE, 2 User Programming
SIM	1 Nano SIM Card Socket
Antenna	6 Antenna for 5G/WiFi/4G/LTE/GPRS/UMTS
Expansion	
M.2	<ul style="list-style-type: none"> ▪ 1 M.2 Key B Socket (3042/3052) ▪ 1 M.2 Key E Socket (2230)
Graphics	
Interface	1 Digital Display, up to 3840 x 2160 @60Hz
Video Encode	<ul style="list-style-type: none"> ▪ HEVC : Up to 2x2160p @60, 4x2160p @30, 10x1080p @60, 22x1080p @30 ▪ H.264 : Up to 2x2160p @60, 4x2160p @30, 10x1080p @60, 20x1080p @30
Video Decode	<ul style="list-style-type: none"> ▪ HEVC : Up to 2x4320p @30, 6x2160p @60, 12x2160p @30, 22x1080p @60, 44x1080p @30 ▪ H.264 : Up to 2x2160p @60, 6x2160p @30, 10x1080p @60, 22x1080p @30
Camera	
GMSL	4 Fakra-Z connectors for GMSL 1/2 automotive cameras

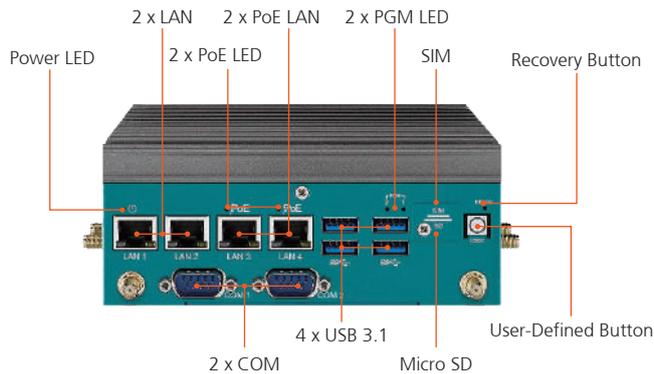
Storage	
M.2	1 M.2 Key M Socket (2280)
eMMC	1 eMMC 5.1, 16GB
SD	1 Micro SD (External)
Ethernet	
LAN 1	10/100/1000 Base-T Ethernet GigE LAN, RJ45 Connector
LAN 2	10/100/1000 Base-T Ethernet GigE LAN, RJ45 Connector
PoE	
LAN 3	IEEE 802.3at (25.5W/48V) GigE PoE+ LAN, RJ45 Connector
LAN 4	IEEE 802.3at (25.5W/48V) GigE PoE+ LAN, RJ45 Connector
Power	
Power Input	DC 9V to 50V
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Mechanical	
Dimensions	150.4mm x 106.2mm x 62.0mm (5.92" x 4.18" x 2.44")
Weight	1.3 kg (2.9 lb)
Mounting	<ul style="list-style-type: none"> ▪ Wallmount by mounting bracket ▪ DIN Rail Mount (Optional)
Environment	
Operating Temp.	15W TDP : -20°C to 60°C (-4°F to 140°F) 10W TDP : -20°C to 65°C (-4°F to 149°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @70°C
Shock	Operating, MIL-STD-810G, Method 516.7, Procedure I
Vibration	Operating, MIL-STD-810G, Method 514.7, Procedure I, Category 4
EMC	CE, FCC, EN50155, EN50121-3-2

Dimensions

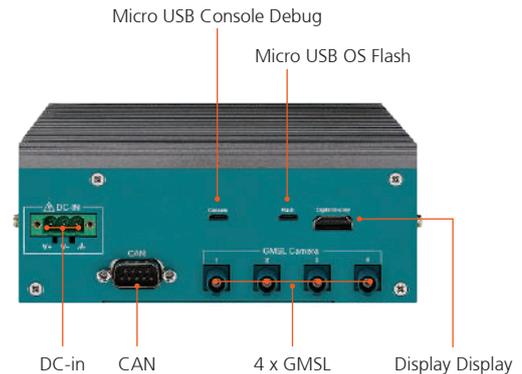
Unit : mm/ inch



Front I/O



Rear I/O



Order Information

Model Name	Platform	LAN	PoE+	USB 3.1	M.2	Serial	SIM	GMSL	CAN
EAC-2100	Jetson Xavier NX	4	2	4	3	2	1	4	1

Accessories

PWA-120W1	120W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
PWA-160W-WT	160W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
DIN-RAIL	DIN Rail Kit
GMSL Camera Kit	GMSL Camera with Fakra-Z connector
M.2 Storage Module	M.2 Key M/Key B PCIe Storage Module
5G Module	5G Module with Antenna
4G Module	4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

1 Edge AI Computing

2 IoT Gateway

3 System On Module (SOM)

4 Industrial Multi-Touch Computers

5 Embedded Peripherals

EAC-2000

NVIDIA® Jetson Xavier™ NX Edge AI Computing System



Features

- Small form factor NVIDIA® Jetson Xavier™ NX supports up to 21 TOPS AI performance
- Advanced NVIDIA Volta™ architecture with 384 NVIDIA® CUDA® cores and 48 Tensor cores
- Fanless -20°C to 70°C operation
- 4 GigE LAN with 2 PoE+, 4 USB 3.1, 1 Digital Display
- M.2 for 5G/4G/LTE/WiFi/BT/GPRS/UMTS
- Storage : M.2 PCIe NVMe SSD, External Micro SD
- DC 9V to 50V wide range power input
- Support 24/7 secure remote monitoring, control, and OTA deployment empowered by Allxon



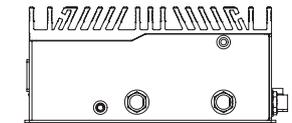
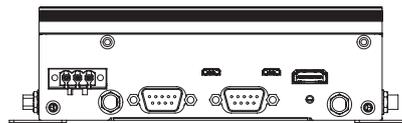
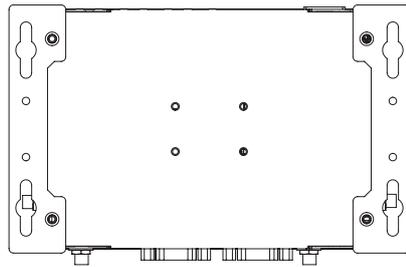
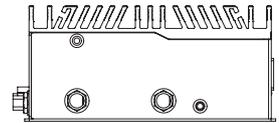
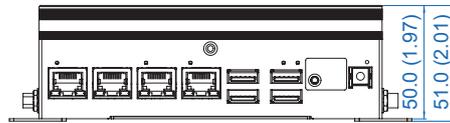
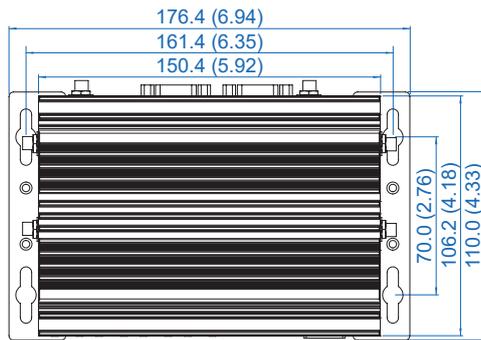
Specifications

System	
CPU	6-core NVIDIA Carmel ARM® v8.2 64-bit CPU
GPU	384-core NVIDIA Volta™ GPU with 48 Tensor Cores
DL Accelerator	2x NVDLA Engines
Memory	1 LPDDR4x DRAM, 8GB
OS	Linux Ubuntu 18.04 with JetPack
I/O Interface	
USB	4 USB 3.1 Type A
Serial	2 COM RS-232/485
Micro USB	<ul style="list-style-type: none"> ▪ 1 Micro USB console debug port ▪ 1 Micro USB OS flash port
Button	<ul style="list-style-type: none"> ▪ 1 User-Define Button ▪ 1 Force Recovery Button
LED	2 PoE, 2 User Programming
SIM	1 Nano SIM Card Socket
Antenna	6 Antenna for 5G/WiFi/4G/LTE/GPRS/UMTS
Expansion	
M.2	<ul style="list-style-type: none"> ▪ 1 M.2 Key B Socket (3042/3052) ▪ 1 M.2 Key E Socket (2230)
Graphics	
Interface	1 Digital Display, up to 3840 x 2160 @60Hz
Video Encode	<ul style="list-style-type: none"> ▪ HEVC : Up to 2x2160p @60, 4x2160p @30, 10x1080p @60, 22x1080p @30 ▪ H.264 : Up to 2x2160p @60, 4x2160p @30, 10x1080p @60, 20x1080p @30
Video Decode	<ul style="list-style-type: none"> ▪ HEVC : Up to 2x4320p @30, 6x2160p @60, 12x2160p @30, 22x1080p @60, 44x1080p @30 ▪ H.264 : Up to 2x2160p @60, 6x2160p @30, 10x1080p @60, 22x1080p @30
Storage	
M.2	1 M.2 Key M Socket (2280)
eMMC	1 eMMC 5.1, 16GB
SD	1 Micro SD (External)

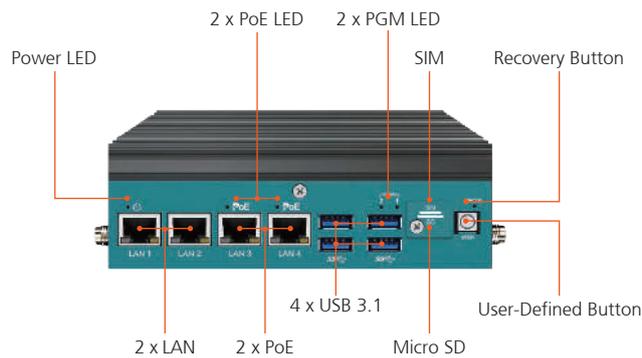
Ethernet	
LAN 1	10/100/1000 Base-T Ethernet GigE LAN, RJ45 Connector
LAN 2	10/100/1000 Base-T Ethernet GigE LAN, RJ45 Connector
PoE	
LAN 3	IEEE 802.3at (25.5W/48V) GigE PoE+ LAN, RJ45 Connector
LAN 4	IEEE 802.3at (25.5W/48V) GigE PoE+ LAN, RJ45 Connector
Power	
Power Input	DC 9V to 50V
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Mechanical	
Dimensions	150.4mm x 106.2mm x 50.0mm (5.92" x 4.18" x 1.97")
Weight	1.2 kg (2.6 lb)
Mounting	<ul style="list-style-type: none"> ▪ Wallmount by mounting bracket ▪ DIN Rail Mount (Optional)
Environment	
Operating Temp.	15W TDP : -20°C to 65°C (-4°F to 149°F) 10W TDP : -20°C to 70°C (-4°F to 158°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @70°C
Shock	Operating, MIL-STD-810G, Method 516.7, Procedure I
Vibration	Operating, MIL-STD-810G, Method 514.7, Procedure I, Category 4
EMC	CE, FCC, EN50155, EN50121-3-2

Dimensions

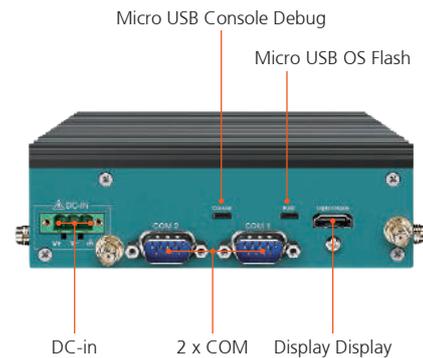
Unit : mm/ inch



Front I/O



Rear I/O



Order Information

Model Name	Platform	LAN	PoE+	USB 3.1	M.2	Serial	SIM
EAC-2000	Jetson Xavier NX	4	2	4	3	2	1

Accessories

PWA-120W1	120W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
PWA-160W-WT	160W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
DIN-RAIL	DIN Rail Kit
GMSL Camera Kit	GMSL Camera with Fakra-Z connector
M.2 Storage Module	M.2 Key M/Key B PCIe Storage Module
5G Module	5G Module with Antenna
4G Module	4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

1 Edge AI Computing

2 IoT Gateway

3 System On Module (SOM)

4 Industrial Multi-Touch Computers

5 Embedded Peripherals

EIC-2000

NXP i.MX 8M Plus Edge AI Computing System



Features

- Industrial-grade NXP i.MX 8M Plus Quad Core Arm Cortex-A53 Processor, embedded Neural Processing Unit, up to 2.3 TOPS AI performance
- Supports up to 3840 x 2160 4K UHD
- 2 GigE LAN with 1 TSN supported
- 2 SIM sockets for multiple WiFi/BT/5G/4G/LTE/GPRS/UMTS
- Optional 4-bit GPIO and 2 CAN Bus supports Flexible Data-rate
- 9V to 55V wide range DC Power Input
- Fanless -25°C to 70°C



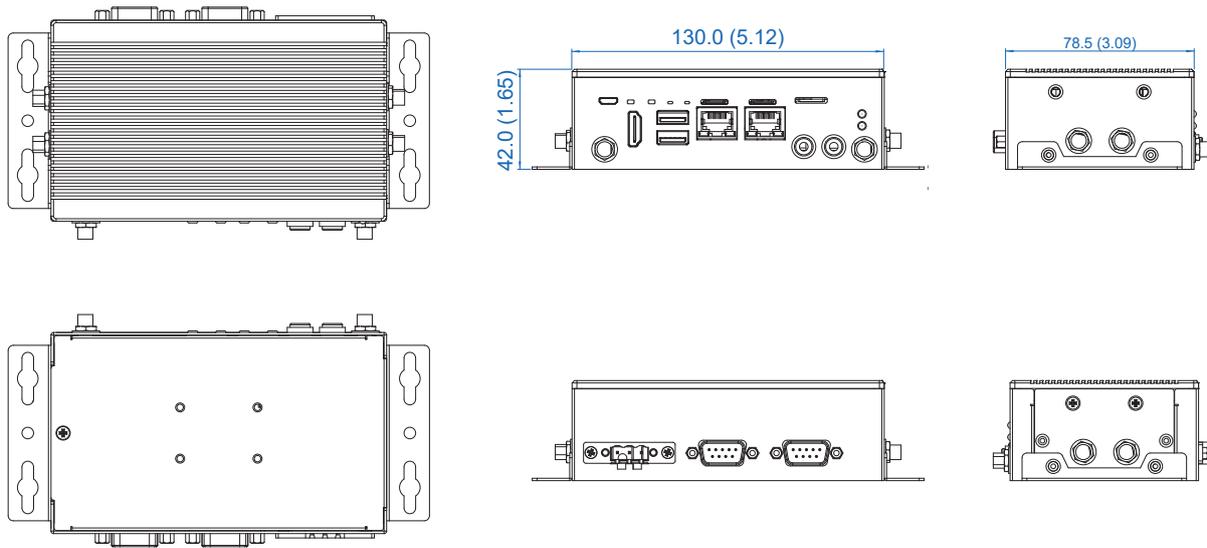
Specifications

System	
CPU	NXP i.MX 8M Plus Quad Core Arm Cortex-A53 processor
Memory	1 LPDDR4 SDRAM, 4GB
OS	Ubuntu 20.04 LTS
I/O Interface	
USB	2 USB 3.0 Type A
Serial	2 COM RS-232/422/485
GPIO	4-bit GPIO (Optional)
CAN Bus	2 CAN Bus support CAN FD (Optional)
Micro USB	1 Micro USB console debug port
Button	<ul style="list-style-type: none"> ▪ 1 User-define Button ▪ 1 Reset Button
LED	Power, Ready, 2 WLAN
SIM	2 Nano SIM Card Socket
Antenna	6 Antenna for WiFi/BT/5G/4G/LTE/GPRS/UMTS
Expansion	
M.2	1 M.2 Key B Socket (3042/3052)
Mini PCIe	1 Full-size Mini PCIe Socket
Graphics	
Interface	1 Digital Display, up to 3840 x 2160 @30Hz
Video Encode	<ul style="list-style-type: none"> ▪ HEVC : Up to 1080p @60 ▪ H.264 : Up to 1080p @60
Video Decode	<ul style="list-style-type: none"> ▪ HEVC : Up to 1080p @60 ▪ H.264 : Up to 1080p @60

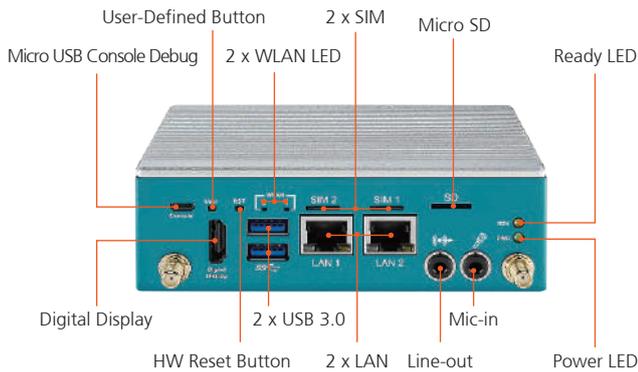
Storage	
eMMC	1 eMMC, 32GB
SD	1 Micro SD, supports SDHC (External)
Ethernet	
LAN 1	10/100/1000 Base-T Ethernet GigE LAN, RJ45 Connector
LAN 2	10/100/1000 Base-T Ethernet GigE LAN supports TSN, RJ45 Connector
Power	
Power Input	DC 9V to 55V
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Mechanical	
Dimensions	130 mm x 78.5 mm x 42 mm (5.12" x 3.09" x 1.65")
Weight	0.5 kg (1.1 lbs)
Mounting	<ul style="list-style-type: none"> ▪ Wallmount by mounting bracket ▪ DIN Rail Mount (Optional)
Environment	
Operating Temp.	-25°C to 70°C (-13°F to 158°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @70°C
Shock	Operating, MIL-STD-810G, Method 516.7, Procedure I
Vibration	Operating, MIL-STD-810G, Method 514.7, Procedure I, Category 4
EMC	CE, FCC, EN50155, EN50121-3-2

Dimensions

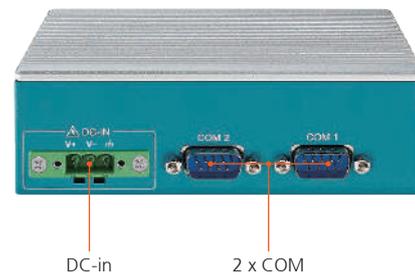
Unit : mm/ inch



Front I/O



Rear I/O



Order Information

Model Name	Platform	LAN	USB 3.0	Serial	Digital Display	M.2	SIM
EIC-2000	NXP i.MX 8M Plus	2	2	2	1	1	2

Accessories

PWA-60WP3-WT	60W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
PWA-60WP3-WT-12V	60W, 12V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
DIN-RAIL	DIN Rail Kit
5G Module	5G Module with Antenna
4G Module	4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

1 Edge AI Computing

2 IoT Gateway

3 System On Module (SOM)

4 Industrial Multi-Touch Computers

5 Embedded Peripherals

EIC-1000

Arm-Based Rockchip Edge Computing System



Features

- Rockchip Dual Cortex-A72, Quad Cortex-A53 Processor
- 2GB DDR3 SDRAM, 32GB eMMC, 1 External Micro SD Socket
- Pre-installed with Debian 9.0 or Android 7.1
- 1 Digital Display, up to 4K resolution
- 1 GigE LAN, 1 USB 3.1, 1 USB 2.0
- 2 COM RS-232/422/485, Audio Mic-in and Line-out
- 1 Half-size Mini PCIe for WiFi/Bluetooth
- DC 9V to 55V wide range power input
- Fanless, 0°C to 70°C Operating Temperature



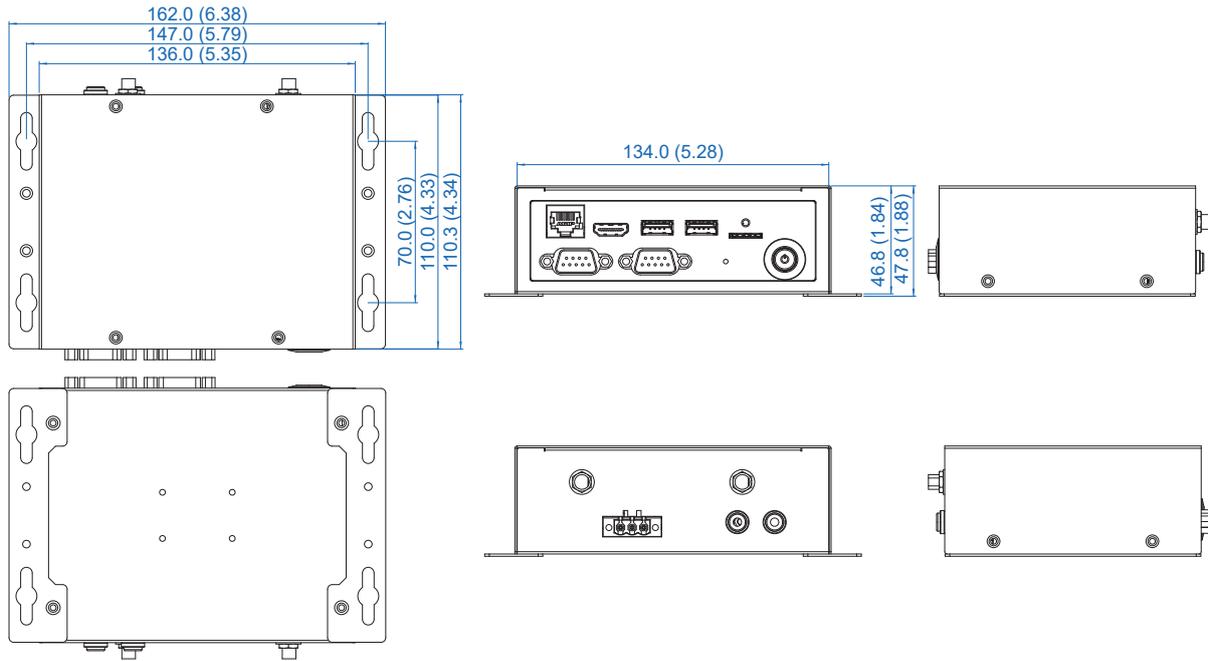
Specifications

System	
CPU	Rockchip RK3399 Arm Dual-core Cortex-A72 @2.0GHz + Quad-core Cortex-A53 @1.8GHz
Memory	1 DDR3L 1066MHz SDRAM, 2GB
OS	<ul style="list-style-type: none"> ▪ Android 7.1 ▪ Linux Debian 9.0
I/O Interface	
USB	<ul style="list-style-type: none"> ▪ 1 USB 3.1 Type A ▪ 1 USB 2.0 Type A
Serial	2 COM RS-232/422/485
Button	<ul style="list-style-type: none"> ▪ 1 Power Button ▪ 1 Reset Button
Antenna	2 Antenna for WiFi/Bluetooth
Expansion	
Mini PCIe	1 Half-size Mini PCIe Socket for PCIe Card
Graphics	
Interface	1 Digital Display, up to 4Kx2K @60fps
Graphics Processor	ARM Mali-T860MP4, AFBC supported
Video Encode	H.264/MVC/VP8 encoders by 1080p @30fps
Video Decode	<ul style="list-style-type: none"> ▪ H.264/H.265, 10bit, up to 4Kx2K @60fps ▪ VP9, 8bit, up to 4Kx2K @60fps ▪ MPEG-4/MPEG-2/VP8 up to 1080p @60fps
Storage	
eMMC	1 eMMC, 32GB
SD	1 Micro SD (External)

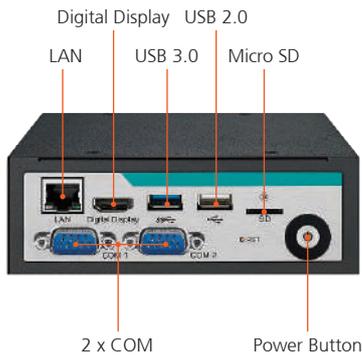
Audio	
Audio Codec	Realtek ALC5640 low power stereo codec
Audio Interface	1 Mic-in, 1 Line-out
Ethernet	
LAN	10/100/1000 Base-T Ethernet GigE LAN, RJ45 Connector
Power	
Power Input	DC 9V to 55V
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Mechanical	
Dimensions	136.0mm x 110.0mm x 46.8mm (5.35" x 4.33" x 1.84")
Weight	0.4kg (0.9 lb)
Mounting	<ul style="list-style-type: none"> ▪ Wallmount by mounting bracket ▪ DIN Rail Mount (Optional)
Environment	
Operating Temp.	0°C to 70°C (32°F to 158°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @70°C
Shock	Operating, MIL-STD-810G, Method 516.7, Procedure I
Vibration	Operating, MIL-STD-810G, Method 514.7, Procedure I, Category 4
EMC	CE, FCC, EN50155, EN50121-3-2

Dimensions

Unit : mm/ inch



Front I/O



Rear I/O



Order Information

Model Name	OS	Platform	GigE LAN	USB 3.1	USB 2.0	Serial	Mini PCIe
EIC-1000-DB	Debian 9.0	Rockchip	1	1	1	2	1
EIC-1000-AD	Android 7.1						

Accessories

PWA-60WP3-WT	60W, 24V, 90V AC to 264V AC Power Adapter with 3-pin 3.5mm Terminal Block, Wide Temperature -30°C to +70°C
PWA-60WP3-WT-12V	60W, 12V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
DIN-RAIL	DIN Rail Kit
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

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4 Industrial Multi-Touch Computers

5 Embedded Peripherals

VAC-1100

24-core Foxconn Cortex-A53 MPU with Hailo AI Accelerator Card
Arm-based Edge AI Computing System for Intelligent Surveillance



Features

- 24-core Foxconn Cortex-A53 Server-grade Computing
- Advanced AI Accelerator supports up to 26 Tera-Operations Per Second (TOPS)
- 1 DDR4 2133MHz Memory with ECC, support up to 16GB
- 9V to 55V wide range DC Power Input
- 1 GigE LAN, 1 IPMI, 2 USB 3.0, 1 Micro USB
- M.2 Key M 2280 for PCIe NVMe SSD
- Support Cross-Platform IP video management system (VMS) for real-time public safety



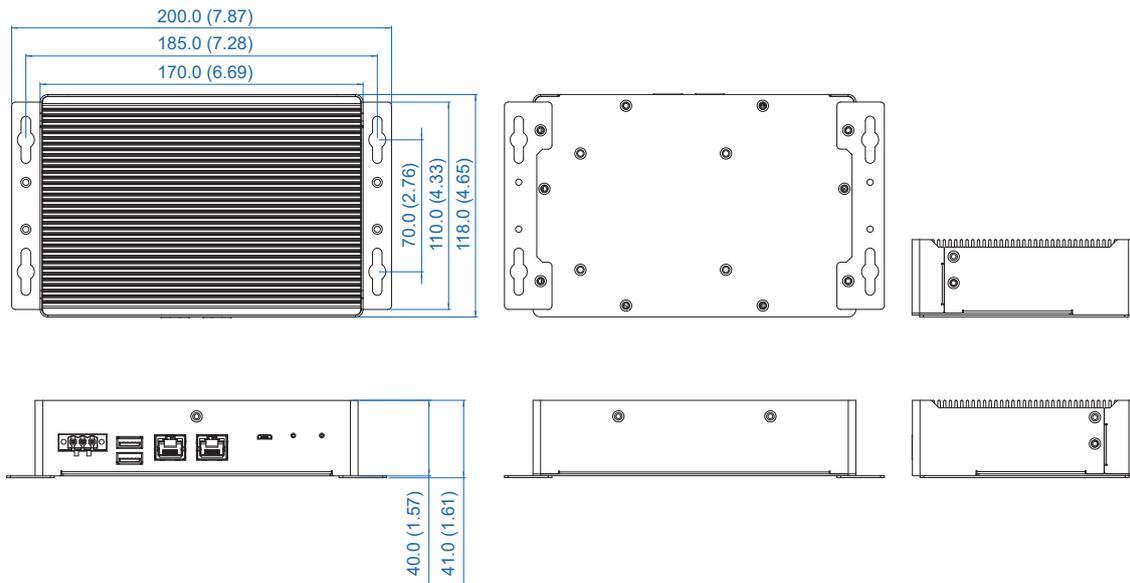
Specifications

System	
Processor	24-core Arm Cortex-A53 Processor (Foxconn FXN3102)
Memory	1 DDR4 2133MHz 16GB ECC SO-DIMM
Flash	1 SPI Flash, 512MB
EEPROM	1 SPI EEPROM, up to 512KB
OS	Ubuntu Server 18.04 LTS
AI Accelerator	
Processor	Hailo-8™ AI Processor, up to 26 TOPS
Framework	TensorFlow, ONNX
I/O Interface	
USB	2 USB 3.0 Type A
Micro USB	<ul style="list-style-type: none"> ▪ 1 Micro USB console port for debug (External) ▪ 1 Micro USB console port for firmware update (Internal)
LED	Power, SSD
Storage	
SATA	1 SATA III (6Gbps)
M.2	1 M.2 Key M Socket (2280, PCIe)
eMMC	1 64GB eMMC, supports MMC4.41/HS200
Ethernet	
LAN	10/100/1000 Base-T Ethernet GigE LAN, RJ45 connector
IPMI	10/100/1000 Base-T Ethernet IPMI, RJ45 connector
Power	
Power Input	DC 9V to 55V
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground

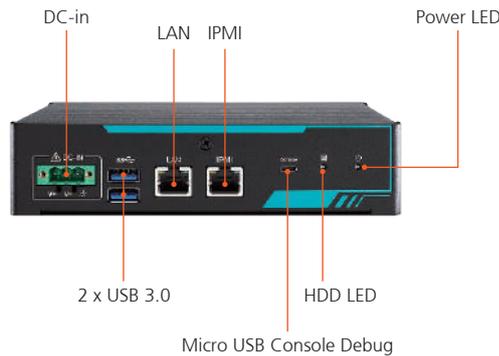
Software Support	
Operation System	<ul style="list-style-type: none"> ▪ Ubuntu Server 18.04 LTS (Linux kernel 4.14.0) ▪ Supports bootup from Flash drive / eMMC ▪ Supports backup from Flash drive ▪ File System : EXT4
Toolchain	gcc-linaro-6.4.1-2017.11-x86_64_aarch64-linux-gnu
Script Language	Python
Mechanical	
Dimensions	170mm x 118mm x 40mm (6.7" x 4.6" x 1.6")
Weight	0.9 kg (2.0 lb)
Mounting	<ul style="list-style-type: none"> ▪ Wallmount by mounting bracket ▪ DIN Rail Mount (Optional)
Environment	
Operating Temp.	VAC-1100-W16E : -40°C to 70°C (-40°F to 158°F) VAC-1100-16E : 0°C to 55°C (32°F to 131°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @55°C
Shock	Operating, MIL-STD-810G, Method 516.7, Procedure I
Vibration	Operating, MIL-STD-810G, Method 514.7, Procedure I, Category 4
EMC	CE, FCC, EN50155, EN50121-3-2

Dimensions

Unit : mm/ inch



Front I/O



Order Information

Model Name	CPU	GigE LAN	IPMI	USB 3.0	M.2	SSD Bracket	AI Accelerator	RAM
VAC-1100-W16E	FXN3102	1	1	2	1	1	Hailo	16GB, IT
VAC-1100-16E	FXN3102	1	1	2	1	1	Hailo	16GB, CT

Optional Software

NX Witness VMS	Network Optix IP Video Management System (VMS) and Video Surveillance Software
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Accessories

PWA-60WP3-WT	60W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
PWA-60WP3-WT-12V	60W, 12V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
DIN-RAIL	DIN Rail Kit
M.2 Storage Module	M.2 Key M PCIe Storage Module

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Edge AI Computing

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IoT Gateway

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System On Module (SOM)

4

Industrial Multi-Touch Computers

5

Embedded Peripherals

VAC-1000

24-core Foxconn Cortex-A53 MPU with Lightspeeur AI Accelerator Card
Arm-based Edge AI Computing System for Intelligent Surveillance



Features

- 24-core Foxconn Cortex-A53 Server-grade Computing
- Advanced AI Accelerator supports up to 5.6 Tera-Operations Per Second (TOPS)
- 1 DDR4 2133MHz Memory with ECC, support up to 16GB
- 9V to 55V wide range DC Power Input
- 1 GigE LAN, 1 IPMI, 2 USB 3.0, 1 Micro USB
- M.2 Key M 2280 for PCIe NVMe SSD
- Support Cross-Platform IP video management system (VMS) for real-time surveillance



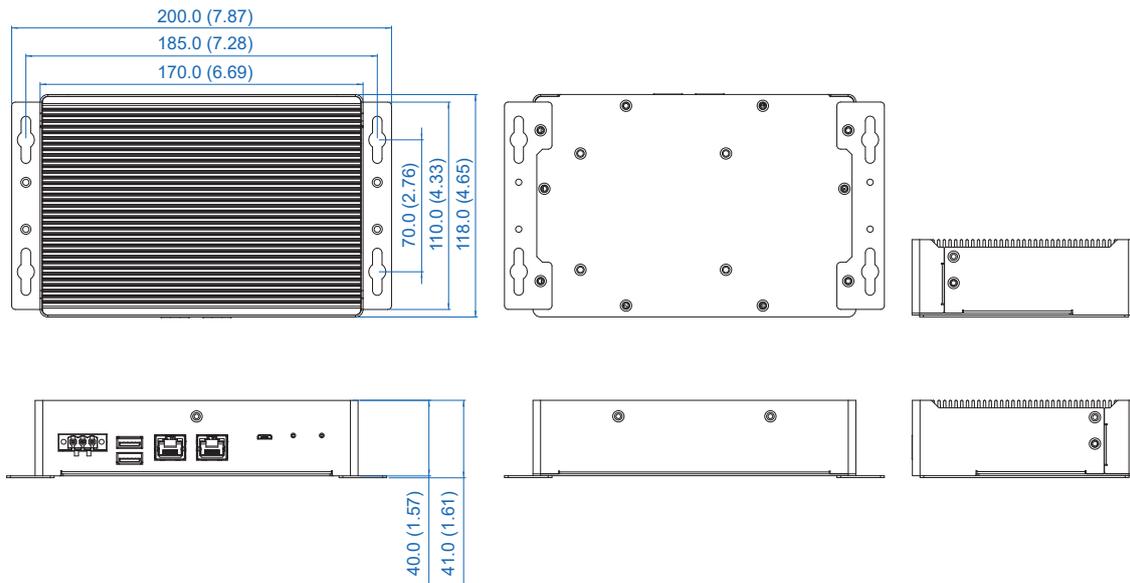
Specifications

System	
Processor	24-core Arm Cortex-A53 Processor (Foxconn FXN3102)
Memory	1 DDR4 2133MHz 16GB ECC SO-DIMM
Flash	1 SPI Flash, 512MB
EEPROM	1 SPI EEPROM, up to 512KB
OS	Ubuntu Server 18.04 LTS
AI Accelerator	
Processor	Lightspeeur® 2801S Neural Accelerator, up to 5.6 TOPS
Framework	TensorFlow, Caffe, PyTorch
I/O Interface	
USB	2 USB 3.0 Type A
Micro USB	<ul style="list-style-type: none"> ▪ 1 Micro USB console port for debug (External) ▪ 1 Micro USB console port for firmware update (Internal)
LED	Power, SSD
Storage	
SATA	1 SATA III (6Gbps)
M.2	1 M.2 Key M Socket (2280, PCIe)
eMMC	1 64GB eMMC, supports MMC4.41/HS200
Ethernet	
LAN	10/100/1000 Base-T Ethernet GigE LAN, RJ45 connector
IPMI	10/100/1000 Base-T Ethernet IPMI, RJ45 connector
Power	
Power Input	DC 9V to 55V
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground

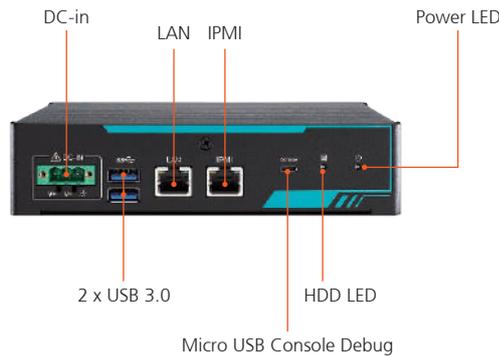
Software Support	
Operation System	<ul style="list-style-type: none"> ▪ Ubuntu Server 18.04 LTS (Linux kernel 4.14.0) ▪ Supports bootup from Flash drive / eMMC ▪ Supports backup from Flash drive ▪ File System : EXT4
Toolchain	gcc-linaro-6.4.1-2017.11-x86_64_aarch64-linux-gnu
Script Language	Python
Mechanical	
Dimensions	170mm x 118mm x 40mm (6.7" x 4.6" x 1.6")
Weight	0.9 kg (2.0 lb)
Mounting	<ul style="list-style-type: none"> ▪ Wallmount by mounting bracket ▪ DIN Rail Mount (Optional)
Environment	
Operating Temp.	VAC-1000-W16E : -40°C to 70°C (-40°F to 158°F) VAC-1000-16E : 0°C to 55°C (32°F to 131°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @55°C
Shock	Operating, MIL-STD-810G, Method 516.7, Procedure I
Vibration	Operating, MIL-STD-810G, Method 514.7, Procedure I, Category 4
EMC	CE, FCC, EN50155, EN50121-3-2

Dimensions

Unit : mm/ inch



Front I/O



Order Information

Model Name	CPU	GigE LAN	IPMI	USB 3.0	M.2	SSD Bracket	AI Accelerator	RAM
VAC-1000-W16E	FXN3102	1	1	2	1	1	Lightspeur®	16GB, IT
VAC-1000-16E	FXN3102	1	1	2	1	1	Lightspeur®	16GB, CT

Optional Software

NX Witness VMS	Network Optix IP Video Management System (VMS) and Video Surveillance Software
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Accessories

PWA-60WP3-WT	60W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
PWA-60WP3-WT-12V	60W, 12V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
DIN-RAIL	DIN Rail Kit
M.2 Storage Module	M.2 Key M PCIe Storage Module

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Edge AI Computing

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IoT Gateway

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System On Module (SOM)

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Industrial Multi-Touch Computers

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Embedded Peripherals

Industrial IoT Gateway

Connecting the World via Multiple Sensors



IoT Gateway

Series		AIC-100			
Model No.		AIC-110	AIC-110A	AIC-100	AIC-100A
Product Image					
System	CPU	NXP i.MX6ULL Arm® Cortex®-A7	NXP i.MX6ULL Arm® Cortex®-A7	NXP i.MX6ULL Arm® Cortex®-A7	NXP i.MX6ULL Arm® Cortex®-A7
	Memory Type	DDR3L SDRAM, Onboard	DDR3L SDRAM, Onboard	DDR3L SDRAM, Onboard	DDR3L SDRAM, Onboard
	Memory Capacity	512MB	512MB	512MB	512MB
	EEPROM	16KB	16KB	16KB	16KB
	OS Support	Linux Debian Stretch R01	Linux Debian Stretch R01	Linux Debian Stretch R01	Linux Debian Stretch R01
I/O Interface	Serial	2 RS-232/485	2 RS-232/485	2 RS-232/485	2 RS-232/485
	USB 2.0	1	1	1	1
	LAN	2 (10/100Mbps)	2 (10/100Mbps)	2 (10/100Mbps)	2 (10/100Mbps)
	CAN Bus	2	2	NA	NA
	Isolated DIO	12 (8 DI, 4 DO)	12 (8 DI, 4 DO)	NA	NA
	Console	1	1	1	1
Storage	NAND	512MB, On-board	NA	512MB, On-board	NA
	eMMC	NA	32GB, On-board	NA	32GB, On-board
	microSD	1 (External)	1 (External)	1 (External)	1 (External)
Expansion	Mini PCIe	1	1	1	1
	SIM Card	1 (External)	1 (External)	1 (External)	1 (External)
Power	Input	DC-in 9V to 50V	DC-in 9V to 50V	DC-in 9V to 50V	DC-in 9V to 50V
	Connector	Terminal Block	Terminal Block	Terminal Block	Terminal Block
Dimensions (W x L x H)		91 x 91 x 47 mm (3.6" x 3.6" x 1.8")	91 x 91 x 47 mm (3.6" x 3.6" x 1.8")	91 x 91 x 32 mm (3.6" x 3.6" x 1.2")	91 x 91 x 32 mm (3.6" x 3.6" x 1.2")
Weight		0.4 kg (0.9 lb)	0.4 kg (0.9 lb)	0.4 kg (0.9 lb)	0.4 kg (0.9 lb)
Mounting		Wallmount, DIN Rail	Wallmount, DIN Rail	Wallmount, DIN Rail	Wallmount, DIN Rail
Operating Temperature		-25°C to 70°C (-13°F to 158°F)	-25°C to 70°C (-13°F to 158°F)	-25°C to 70°C (-13°F to 158°F)	-25°C to 70°C (-13°F to 158°F)
Storage Temperature		-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)
Humidity		5% to 95%, non-condensing	5% to 95%, non-condensing	5% to 95%, non-condensing	5% to 95%, non-condensing
Vibration		MIL-STD-810G	MIL-STD-810G	MIL-STD-810G	MIL-STD-810G
Shock		MIL-STD-810G	MIL-STD-810G	MIL-STD-810G	MIL-STD-810G
Certification		CE, FCC, EN50155, EN50121-3-2	CE, FCC, EN50155, EN50121-3-2	CE, FCC, EN50155, EN50121-3-2	CE, FCC, EN50155, EN50121-3-2

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AIC-110

Industrial-grade NXP i.MX6ULL Arm® Cortex®-A7 Processor
Arm-based IoT Gateway



Features

- Industrial-grade NXP i.MX6ULL Arm Cortex-A7 Processor
- 9V to 50V wide range DC Power Input
- Supports Node-RED browser-based flow editor
- 2 LAN, 1 USB 2.0, 2 COM RS-232/485
- 12-bit Isolated DIO (8 DI, 4 DO), 2 CAN Bus
- Mini PCIe with SIM socket for 4G/LTE/WiFi/BT/GPRS/UMTS
- Pre-installed with Debian Stretch R01
- Compact & Cableless design, Low Power Consumption



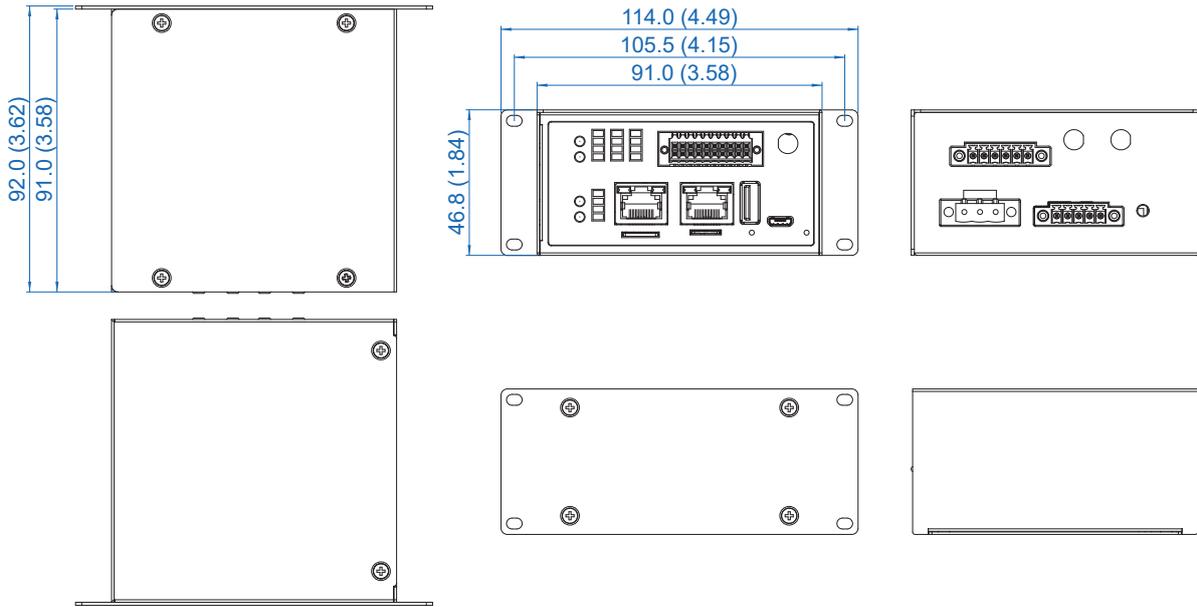
Specifications

System	
Processor	NXP i.MX6 ULL 900MHz Arm® Cortex®-A7 Processor
Memory	1 DDR3L SDRAM, 512MB
Flash	AIC-110 : 1 NAND Flash, 512MB AIC-110A : 1 eMMC, 32GB
EEPROM	1 EEPROM, up to 16KB
OS	Debian Stretch R01
I/O Interface	
USB	1 USB 2.0 Type A
Serial	2 COM RS-232/485
Isolated DIO	12 Isolated DIO : 8 DI, 4 DO
CAN Bus	2 CAN Bus 2.0 A/B
Console	1 Micro USB
Button	<ul style="list-style-type: none"> ▪ 1 User-define Button ▪ 1 Reset Button
SIM	1 Nano SIM Card Socket
LED	Power, Ready, Serial, CAN, DIO
Antenna	3 Antenna for WiFi/4G/LTE/GPRS/UMTS/L0RaWAN
Storage	
SD	1 Micro SD Socket supports SDHC, up to 128GB (External)
Ethernet	
LAN 1	10/100 Mbps Ethernet, RJ45 Connector
LAN 2	10/100 Mbps Ethernet, RJ45 Connector
Power	
Power Input	DC 9V to 50V
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Typical Consumption	12V DC @500mA

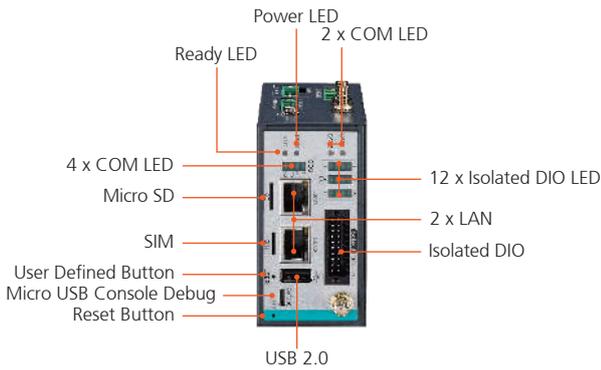
Others	
Watchdog Timer	Reset : 0.5 to 128 sec./min. per step
Software Support	
Operating System	<ul style="list-style-type: none"> ▪ Debian Stretch R01, Linux Kernel 4.9.11 ▪ Supports bootup from SD Card/Nand Flash ▪ Supports backup from SD Card ▪ Filesystem : EXT4
Toolchain	gcc-linaro-6.3.1-2017.05-x86_64_arm-linux-gnueabi
Script Language	Python, NodeJS
Mechanical	
Dimensions	AIC-110/110A : 91mm x 91mm x 47mm (3.6" x 3.6" x 1.8")
Weight	0.4 kg (0.9 lb)
Mounting	<ul style="list-style-type: none"> ▪ Wallmount by mounting bracket ▪ DIN Rail Mount (Optional)
Environment	
Operating Temp.	-25°C to 70°C (-13°F to 158°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @70°C
Shock	Operating, MIL-STD-810G, Method 516.7, Procedure I
Vibration	Operating, MIL-STD-810G, Method 514.7, Procedure I, Category 4
EMC	CE, FCC, EN50155, EN50121-3-2

Dimensions

Unit : mm/ inch



Front I/O



Top I/O



Order Information

Model Name	CPU	LAN	USB	Serial	SIM	CAN	Isolated DIO	Storage
AIC-110	Arm® Cortex®-A7	2	1	2	1	2	12	Flash
AIC-110A						2	12	eMMC

Accessories

PWA-12W-US1	12W, 12V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block (US Type)
PWA-12W-EU	12W, 12V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block (EU Type)
PWA-18W-WT	18W, 12V, 85V AC to 264V AC Power Adaptor with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
DIN-RAIL	DIN Rail Kit
TMK2-20P-100	Terminal Block 20-pin to Terminal Block 20-pin Cable, 100cm
TMK2-20P-500	Terminal Block 20-pin to Terminal Block 20-pin Cable, 500cm
TMB-TMBK-20P	Terminal Board with One 20-pin Terminal Block Connector and DIN-Rail Mounting
4G Module	Mini PCIe 4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna
LoRaWAN Module	LoRaWAN Module with Antenna

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AIC-100

Industrial-grade NXP i.MX6ULL Arm® Cortex®-A7 Processor
Arm-based IoT Gateway



Features

- Industrial-grade NXP i.MX6ULL Arm Cortex-A7 Processor
- 9V to 50V wide range DC Power Input
- Supports Node-RED browser-based flow editor
- 2 LAN, 1 USB 2.0, 2 COM RS-232/485
- Mini PCIe with SIM socket for 4G/LTE/WiFi/BT/GPRS/UMTS
- Pre-installed with Debian Stretch R01
- Compact & Cableless design, Low Power Consumption



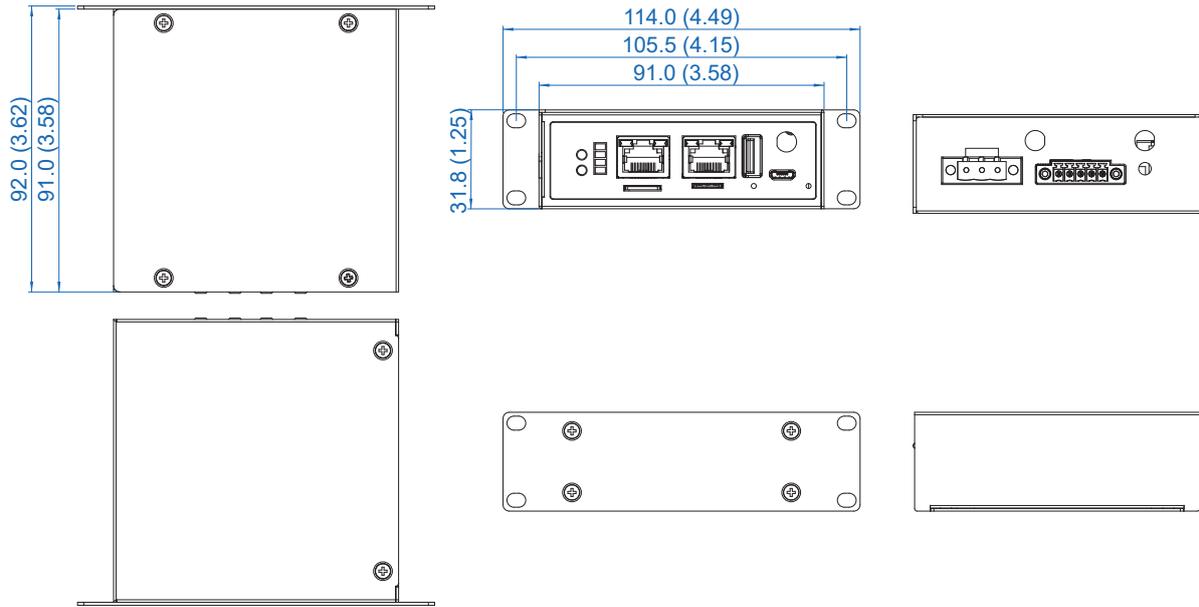
Specifications

System	
Processor	NXP i.MX6 ULL 900MHz Arm® Cortex®-A7 Processor
Memory	1 DDR3L SDRAM, 512MB
Flash	AIC-100 : 1 NAND Flash, 512MB AIC-100A : 1 eMMC, 32GB
EEPROM	1 EEPROM, up to 16KB
OS	Debian Stretch R01
I/O Interface	
USB	1 USB 2.0 Type A
Serial	2 COM RS-232/485
Console	1 Micro USB
Button	<ul style="list-style-type: none">▪ 1 User-define Button▪ 1 Reset Button
SIM	1 Nano SIM Card Socket
LED	Power, Ready, Serial, CAN, DIO
Antenna	3 Antenna for WiFi/4G/LTE/GPRS/UMTS/L0RaWAN
Storage	
SD	1 Micro SD Socket supports SDHC, up to 128GB (External)
Ethernet	
LAN 1	10/100 Mbps Ethernet, RJ45 Connector
LAN 2	10/100 Mbps Ethernet, RJ45 Connector
Power	
Power Input	DC 9V to 50V
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Typical Consumption	12V DC @500mA

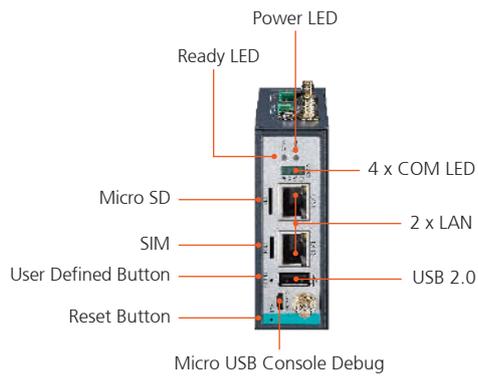
Others	
Watchdog Timer	Reset : 0.5 to 128 sec./min. per step
Software Support	
Operating System	<ul style="list-style-type: none">▪ Debian Stretch R01, Linux Kernel 4.9.11▪ Supports bootup from SD Card/Nand Flash▪ Supports backup from SD Card▪ Filesystem : EXT4
Toolchain	gcc-linaro-6.3.1-2017.05-x86_64_arm-linux-gnueabi
Script Language	Python, NodeJS
Mechanical	
Dimensions	AIC-100/100A : 91mm x 91mm x 32mm (3.6" x 3.6" x 1.2")
Weight	0.4 kg (0.9 lb)
Mounting	<ul style="list-style-type: none">▪ Wallmount by mounting bracket▪ DIN Rail Mount (Optional)
Environment	
Operating Temp.	-25°C to 70°C (-13°F to 158°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @70°C
Shock	Operating, MIL-STD-810G, Method 516.7, Procedure I
Vibration	Operating, MIL-STD-810G, Method 514.7, Procedure I, Category 4
EMC	CE, FCC, EN50155, EN50121-3-2

Dimensions

Unit : mm/ inch



Front I/O



Top I/O



Order Information

Model Name	CPU	LAN	USB	Serial	SIM	CAN	Isolated DIO	Storage
AIC-100	Arm® Cortex®-A7	2	1	2	1	-	-	Flash
AIC-100A						-	-	eMMC

Accessories

PWA-12W-US1	12W, 12V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block (US Type)
PWA-12W-EU	12W, 12V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block (EU Type)
PWA-18W-WT	18W, 12V, 85V AC to 264V AC Power Adaptor with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
DIN-RAIL	DIN Rail Kit
TMK2-20P-100	Terminal Block 20-pin to Terminal Block 20-pin Cable, 100cm
TMK2-20P-500	Terminal Block 20-pin to Terminal Block 20-pin Cable, 500cm
TMB-TMBK-20P	Terminal Board with One 20-pin Terminal Block Connector and DIN-Rail Mounting
4G Module	Mini PCIe 4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna
LoRaWAN Module	LoRaWAN Module with Antenna

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System on Module Solution

Comprehensive & Flexible for Vertical Applications

Smart
Camera



POS
Kiosk



Digital
Signage



AMR



System On Module

Series		ESOM		
Model No.		ESOM-MT-1200	ESOM-MT-500	ESOM-MT-350
Product Image				
System	Processor	MediaTek Genio 1200 Arm Quad-core Cortex-A78 and Quad-core Cortex-A55	MediaTek Genio 500 Arm Quad-core Cortex-A73 and Quad-core Cortex-A53	MediaTek Genio 350 Arm Quad-core Cortex-A53
	Memory	8GB LPDDR4X SDRAM	4GB LPDDR4 SDRAM	2GB LPDDR4 SDRAM
	eMMC	64GB eMMC	16GB eMMC	16GB eMMC
	OS	Linux Yocto 3.1, Android 11	Linux Yocto 2.6, Android 10	Linux Yocto 3.1, Android 10
Graphics	Graphics Processor	ARM Mali-G57	ARM Mali-G72	ARM Mali-G52
	Video Encode	- HEVC: 4K2K@60fps - H.264: 4K2K@60fps	H.264: 1080p@30fps	HEVC: 1080p@60fps H.264: 1080p@60fps
	Video Decode	- HEVC: 4K2K@90fps - H.264: 4K2K@90fps	HEVC: 1080p@30fps H.264: 1080p@30fps	HEVC: 1080p@60fps H.264: 1080p@60fps
Camera	MIPI CSI	3	1	2
	ISP	- Single 48MP @30fps - Dual 16MP @30fps	- Single 25MP @30fps - Dual 16MP @30fps	Single 13MP @30fps
Display Interface	Digital Display	2 (1 TX, 1 RX)	1	1
	DisplayPort	1	NA	NA
	eDP	1	NA	NA
	MIPI DSI	1	1	1
Wireless	Wi-Fi	NA	NA	2T2R 802.11ac
	Bluetooth	NA	NA	BT 5.0
Wireless	PCIe	1 PCIe x2	NA	NA
	USB 3.0/3.1/3.2	2	NA	NA
	USB 2.0	2	1	2
	UART	3	2	2
	SDIO	1	1	1
	SPI	2	1	1
	I2C	2	6	5
	Audio	1 Mic-in, 1 Line-out	1 Mic-in, 1 Line-out	2 Mic-in, 1 HP-out
	PWM	2	2	2
	ADC	NA	1	1
	GPIO	8	12	14
Power	Input	DC-in 4.2V	DC-in 4.2V	DC-in 4.2V
Dimensions (W x L)		82 x 55 mm (3.2" x 2.2")	70 x 55 mm (2.8" x 2.2")	60 x 45 mm (2.4" x 1.8")
Operating Temperature		-40°C to 85°C (-40°F to 185°F)	0°C to 60°C (32°F to 140°F)	-40°C to 85°C (-40°F to 185°F)
Storage Temperature		-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)
Humidity		5% to 95%, non-condensing	5% to 95%, non-condensing	5% to 95%, non-condensing
Certification		CE, FCC	CE, FCC	CE, FCC

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3 System On Module (SOM)

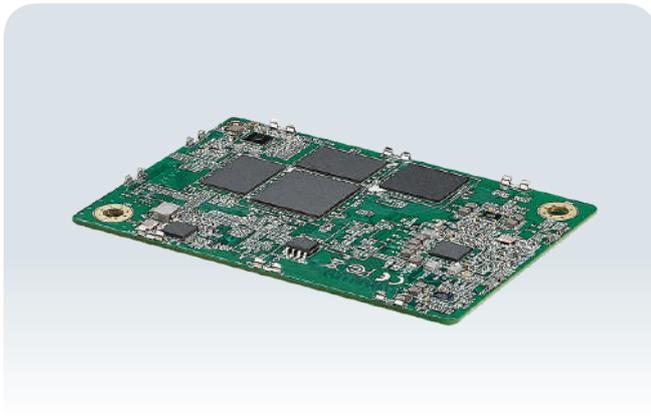
4 Industrial Multi-Touch Computers

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ESOM-MT-1200

MediaTek Genio 1200 System on Module

MediaTek
Genio



Features

- Octa-core MediaTek Genio 1200 processor with quad Cortex-A78 and quad Cortex-A55, 4.8 AI TOPS
- Integrated Mali-G57 GPU and H.265/H.264 4K video decoding
- Onboard 8GB LPDDR4X memory and 64GB eMMC
- Support 2 4-lane MIPI CSI-2 camera with internal ISP for dual 16MP
- Support 2 Digital Display, 1 DP, 1 eDP and 1 4-lane MIPI DSI, 4K resolution
- Supports 1 PCIe x2, 2 USB 3.0, 1 Gigabit Ethernet
- Supports Android 11 and Yocto 3.1 operating system

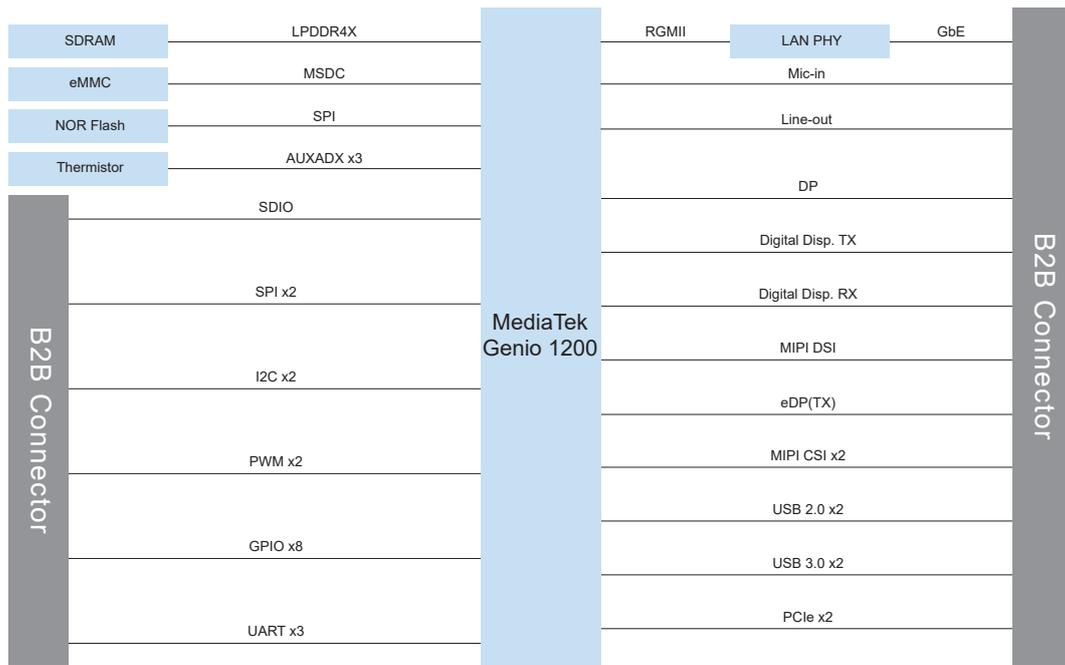


Specifications

System	
Processor	MediaTek Genio 1200 Processor with Quad-core Cortex-A78 @2.2GHz and Quad Cortex-A55 @2.2GHz
Memory	8GB LPDDR4X SDRAM
eMMC	64GB eMMC
Flash	8Mb NOR Flash
OS	<ul style="list-style-type: none"> ▪ Android 11 ▪ Linux Yocto 3.1
I/O Interface	
Internal I/O	4 board to board Connector
Graphics	
Graphics Processor	<ul style="list-style-type: none"> ▪ ARM Mali-G57 high-performance GPU ▪ 3D graphics accelerator capable of processing 17600M pixel/sec @ 880MHz ▪ Graphics engine supporting OpenGL® ES 3.2, OpenCL 2.2, and Vulkan 1.1 hardware acceleration
Video	<ul style="list-style-type: none"> ▪ Video Encode: <ul style="list-style-type: none"> - HEVC: 4K2K@60fps - H.264: 4K2K@60fps ▪ Video Decode: <ul style="list-style-type: none"> - HEVC: 4K2K@90fps - H.264: 4K2K@90fps
Display	Supports dual independent display: <ul style="list-style-type: none"> ▪ 1 Digital Display TX: 4K @60Hz ▪ 1 Digital Display RX: 4K @60Hz ▪ 1 DisplayPort TX: 4K @60Hz ▪ 1 eDP : 4K @60Hz ▪ 1 MIPI DSI: 4K @60Hz
Camera	<ul style="list-style-type: none"> ▪ Two 4-lane MIPI CSI-2 ▪ Integrated image signal processor supports single 48MP @30fps or dual 16MP @30fps
Audio	
Audio Interface	Mic-in, Line-out

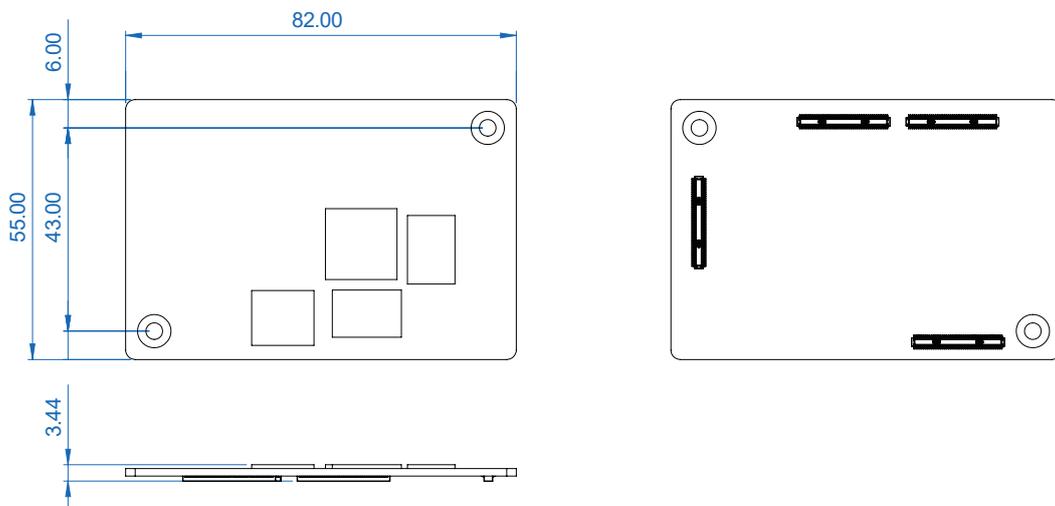
Ethernet	
LAN	10/100/1000 Mbps Ethernet LAN by Realtek RTL8211F
Power	
Power Input	4.2V DC-in
Expansion	
PCIe	1 PCIe Gen3 x2
USB	2 USB 3.0 2 USB 2.0
UART	1 4-wire UART 2 2-wire UART
SDIO	1 SDIO
SPI	2 SPI
I2C	2 I2C
PWM	2 PWM
GPIO	8 GPIO
Mechanical	
Dimensions (W x L)	82 mm x 55 mm
Environment	
Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 85°C
Humidity	5% to 95% Humidity, Non-condensing
Relative Humidity	95% at 85°C
EMC	CE, FCC

Block Diagram



Dimension

Unit : mm/ inch



Order Information

ESOM-MT-1200	System on Module with MediaTek Genio 1200 octa-core Processor, 8GB LPDDR4 SDRAM, 64GB eMMC
ESOM-MT-1200-EV	MediaTek Genio 1200 SOM Evaluation Kit
ESOM-MT-1200-EVP	MediaTek Genio 1200 SOM Evaluation Kit Plus

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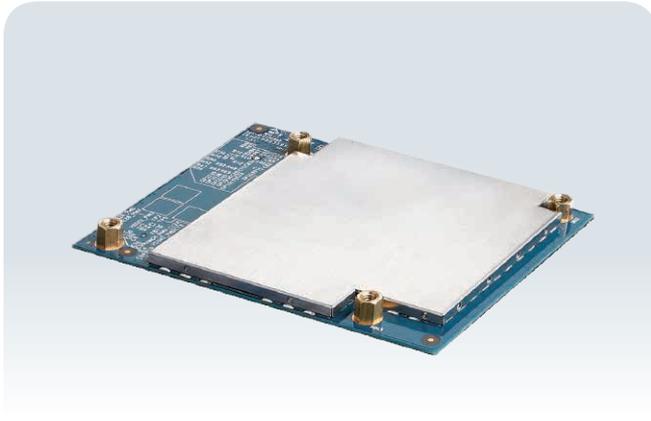
3 System On Module (SOM)

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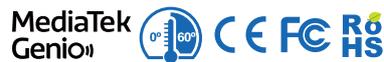
ESOM-MT-500

Arm-Based MediaTek Genio 500 System on Module



Features

- Octa-core MediaTek Genio 500 processor with quad Cortex-A73 and quad Cortex-A53
- Integrated Mali-G72 GPU and H.265/H.264 FHD video decoding
- Onboard 4GB LPDDR4 memory and 16GB eMMC
- Support 4-lane MIPI CSI-2 camera with internal ISP, Full HD Resolution
- Support Digital Display and 4-lane MIPI DSI, Full HD Resolution
- Supports Android 10 and Yocto 2.6 operating system

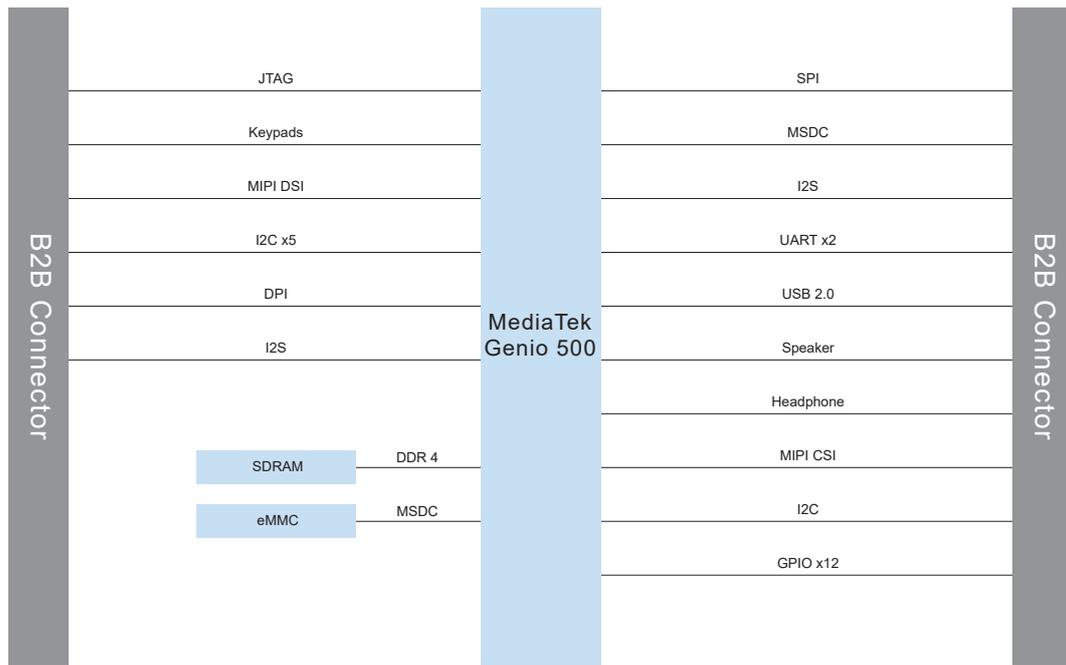


Specifications

System	
Processor	MediaTek Genio 500 Processor with Quad-core Cortex-A73 @2.0GHz and Quad Cortex-A53 @2.0GHz
Memory	4GB LPDDR4 SDRAM
eMMC	16GB eMMC
OS	<ul style="list-style-type: none"> ▪ Android 10 ▪ Linux Yocto 2.6
I/O Interface	
Internal I/O	2 board to board Connector
Graphics	
Graphics Processor	<ul style="list-style-type: none"> ▪ ARM Mali-G72 high-performance GPU ▪ 3D graphics accelerator capable of processing 2400M pixel/sec @ 800MHz ▪ Graphics engine supporting OpenGL® ES 3.0, OpenCL ES 1.1, and Vulkan 1.0 hardware acceleration
Video	<ul style="list-style-type: none"> ▪ Video Encode: <ul style="list-style-type: none"> - H.264: 1080p@30fps ▪ Video Decode: <ul style="list-style-type: none"> - HEVC: 1080p@30fps - H.264: 1080p@30fps ▪ Vision DSP : Supports Cadence Tensilica Vision P6 dual-core @500MHz
Display	<ul style="list-style-type: none"> ▪ Digital Display : up to 1920 x 1080 ▪ MIPI DSI : up to 1920 x 1080
Camera	<ul style="list-style-type: none"> ▪ 4-lane MIPI CSI-2 ▪ Integrated image signal processor supports 25MP
Audio	
Audio Codec	MediaTek MT6358
Audio Interface	Mic-in, Line-out

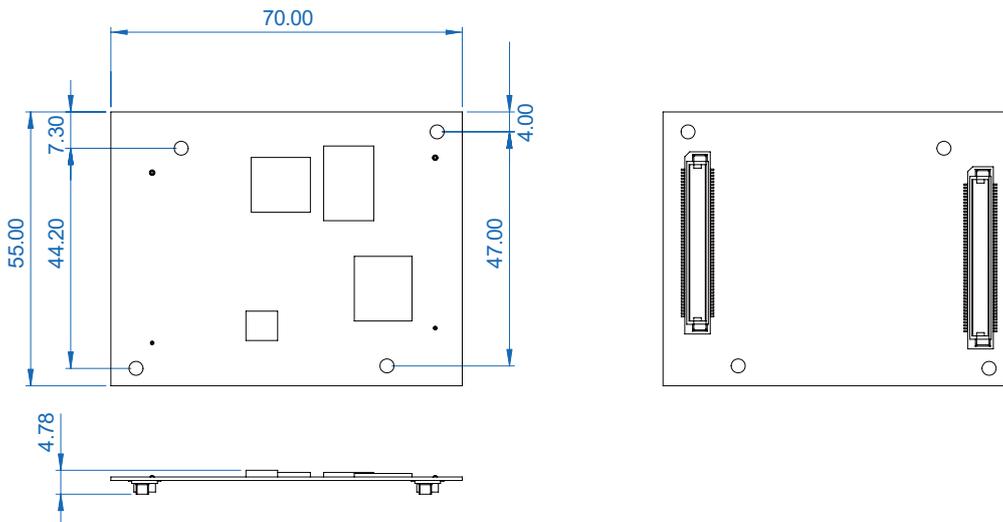
Expansion	
USB	1 USB 2.0
UART	2 UART (2-wire)
SPI	1 SPI
I ² C	6 I ² C
GPIO	12 GPIO
Power	
Power Input	4.2V DC-in
Mechanical	
Dimensions (W x L)	70mm x 55mm (2.76" x 2.17")
Environment	
Operating Temperature	0°C to 60°C
Storage Temperature	-40°C to 85°C
Humidity	5% to 95% Humidity, Non-condensing
Relative Humidity	95% at 60°C
EMC	CE, FCC

Block Diagram



Dimension

Unit : mm/ inch



Order Information

ESOM-MT-500	System on Module with MediaTek Genio 500 octa-core Processor, 4GB LPDDR4 SDRAM, 16GB eMMC
ESOM-MT-500-EV	MediaTek Genio 500 SOM Evaluation Kit
ESOM-MT-500-EVP	MediaTek Genio 500 SOM Evaluation Kit Plus

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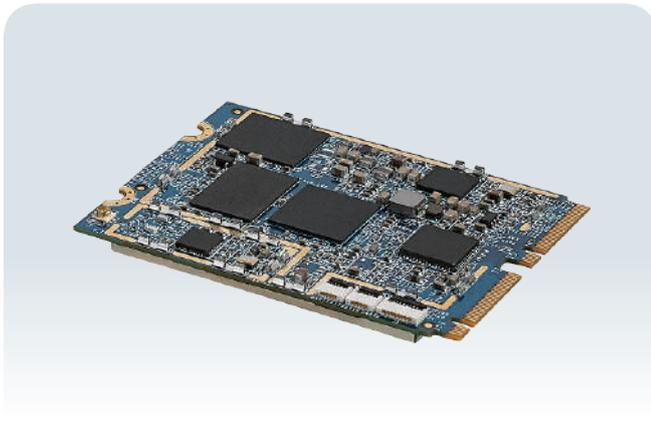
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ESOM-MT-350

Arm-Based MediaTek Genio 350 System on Module



Features

- Quad-core MediaTek Genio 350 processor with quad Arm Cortex-A53 @2.0GHz
- Integrated Mali-G52 GPU and H.265/H.264 FHD video decoding
- Onboard Dual-band 802.11ac Wi-Fi with Bluetooth 5.0
- Onboard 2GB LPDDR4 memory and 16GB eMMC
- Support 4-lane MIPI CSI-2 camera with internal ISP, Full HD Resolution
- Support Digital Display and 4-lane MIPI DSI, Full HD Resolution
- Supports Android 10 and Yocto 3.1 operating system

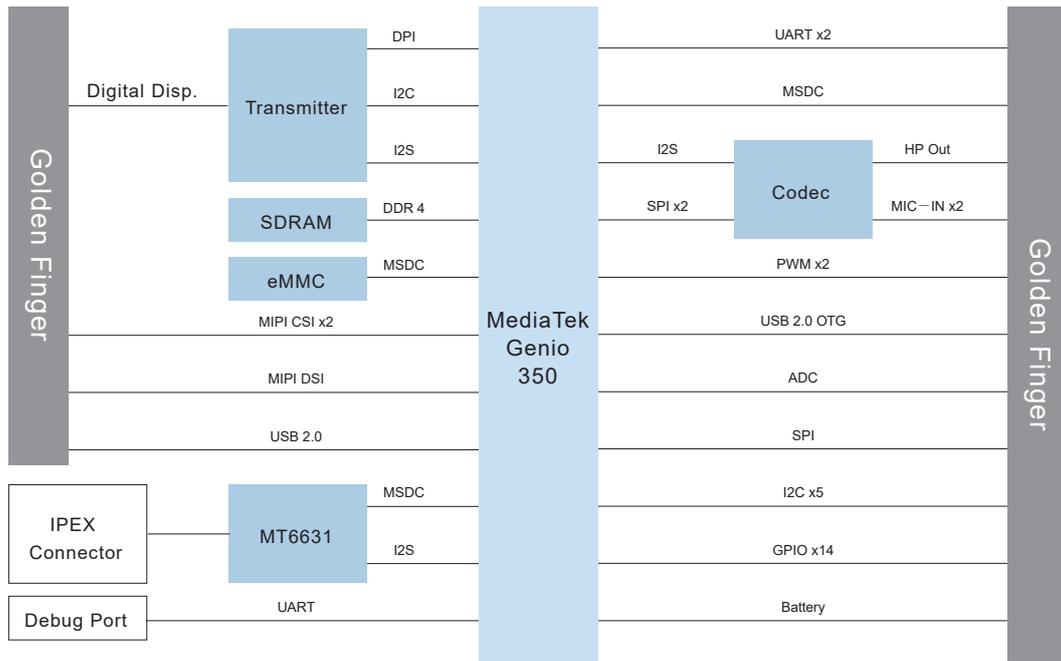


Specifications

System	
Processor	MediaTek Genio 350 Processor with Quad-core Cortex-A53 @2.0GHz
Memory	2GB LPDDR4 SDRAM
eMMC	16GB eMMC
OS	<ul style="list-style-type: none"> ▪ Android 10 ▪ Linux Yocto 3.1
I/O Interface	
External I/O	<ul style="list-style-type: none"> ▪ 1 IPEX Connector ▪ 1 Debug Console Port
Internal I/O	2 M.2 Golden Finger
Graphics	
Graphics Processor	<ul style="list-style-type: none"> ▪ ARM Mali-G52 high-performance GPU ▪ 3D graphics accelerator processing 1600M pixel/sec @800MHz ▪ Graphics engine supporting OpenGL® ES 3.2, OpenCL ES 2.0, and Vulkan 1.1 hardware acceleration
Video	<ul style="list-style-type: none"> ▪ Video Encode: <ul style="list-style-type: none"> - HEVC: 1080p@60fps - H.264: 1080p@60fps ▪ Video Decode: <ul style="list-style-type: none"> - HEVC: 1080p@60fps - H.264: 1080p@60fps ▪ Vision DSP : Supports Cadence Tensilica Vision P6 and HiFi4
Display	<ul style="list-style-type: none"> ▪ Digital Display : up to 1920 x 1080 ▪ 4-lane MIPI DSI : up to 1920 x 1080
Camera	<ul style="list-style-type: none"> ▪ Dual 4-lane MIPI CSI-2 ▪ Integrated image signal processor supports 13MP
Audio	
Audio Codec	MediaTek MT6390/6357
Audio Interface	2 Mic-in, 1 Headphone-out

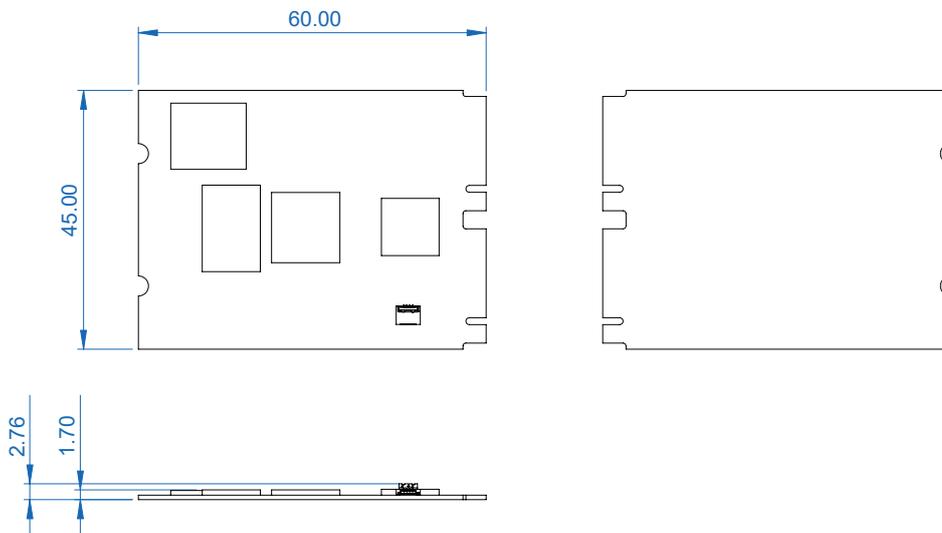
Expansion	
USB	<ul style="list-style-type: none"> ▪ 1 USB 2.0 Host ▪ 1 USB 2.0 OTG
UART	2 UART (2-wire)
SPI	1 SPI
I ² C	5 I ² C
GPIO	14 GPIO
MSDC	1 MSDC
ADC	1 ADC
PWM	2 PWM
Battery Gauge	1 Battery Gauge
Wireless	
Wi-Fi & BT	<ul style="list-style-type: none"> ▪ MediaTek MT6631 ▪ Dual band (2.4GHz & 5GHz) single stream Wi-Fi 802.11 a/b/g/n/ac RF ▪ Bluetooth 5.0
Power	
Power Input	4.2V DC-in
Mechanical	
Dimensions (W x L)	60 mm x 45 mm (2.36" x 1.77")
Environment	
Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 85°C
Humidity	5% to 95% Humidity, Non-condensing
Relative Humidity	95% at 85°C
EMC	CE, FCC

Block Diagram



Dimension

Unit : mm/ inch



Order Information

ESOM-MT-350	System on module with MediaTek Genio 350 Quad-core Processor, 2GB LPDDR4 SDRAM, 16GB eMMC
ESOM-MT-350-EV	MediaTek Genio 350 SOM Evaluation Kit

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Industrial Multi-Touch Computers

Reliable & User-friendly All-in-one Solution



MTA-1010W

10.1" Fanless Multi-Touch Computer with NXP i.MX8M Plus Arm Quad Cortex-A53 Processor



Features

- NXP i.MX8M Plus Arm Quad Cortex-A53 Processor
- 10.1" 1280 x 800 TFT LCD, 350 nits Luminance
- 10-point Projected Capacitive Multi-touch Screen
- 2.3 AI TOPS, Ubuntu 20.04 Support
- 1 4K60 Digital Display, Audio Mic-in & Line-out
- 2 GigE LAN, 2 USB 3.1, 2 RS-232/422/485
- M.2 Key B, Mini PCIe support dual 5G/4G/Wi-Fi/BT
- Optional 2 CAN-FD and 4 GPIO expansion
- Fanless Design, -20°C to 70°C operating temperature
- 9V to 55V wide range DC power input



Specifications

Panel	
Panel Type	WSVGA TFT LED LCD
Size	10.1"
Max. Resolution	1280 x 800
Display Color	16.7M
Brightness (cd/m ²)	350
View Angle (H/V)	85/85/85/85
Contrast Ratio	800:1
Touch Screen	
Touch Screen Type	10-point Projected Capacitive
Control Interface	USB Type
System	
Processor	NXP i.MX8M Plus Arm® Quad-core Cortex®-A53
Memory	4GB LPDDR4 SDRAM
I/O Interface	
Serial	2 RS-232/422/485
USB	2 USB 3.0
LED	Power, RDY, 2 WLAN
Display	1 Digital Display, up to 3840 x 2160 @30Hz
Micro USB	Micro USB console debug port
Button	<ul style="list-style-type: none"> ▪ 1 User-define Button ▪ 1 Reset Button
Audio	Mic-in, Line-out
GPIO	4-bit GPIO (Optional)
SIM	2 (External)

Expansion	
Mini PCIe	1 Full-size Mini PCIe Socket
Storage	
eMMC	1 eMMC, 32GB
SD	1 Micro SD, supports SDHC (External)
Ethernet	
LAN 1	10/100/1000 Base-T Ethernet GigE LAN, RJ45 Connector
LAN 2	10/100/1000 Base-T Ethernet GigE LAN supports TSN, RJ45 Connector
Power	
Power Input	DC 9V to 55V
Power Interface	3-pin Terminal Block (V+/V-/GND)
Software Support	
OS	Ubuntu 20.04 LTS
Mechanical	
Dimensions (W x H x D)	256.5mm x 178.3mm x 69.1mm (10.10" x 7.02" x 2.72")
Weight	1.85 kg (4.08 lb)
Mounting	<ul style="list-style-type: none"> ▪ Panel Mount ▪ VESA Mount (75 x 75)
Environment	
Operating Temperature	-20°C to 70°C (-4°F to 158°F)
Storage Temperature	-30°C to 80°C (-22°F to 176°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @60°C
EMC	CE, FCC

Order Information

MTA-1010W	10.1" Fanless Multi-Touch Computer with NXP i.MX8M Plus, 2 GigE, 2 USB, 2 COM, DC 9V to 55V
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Accessories

PWA-60WP3-WT	60W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
PWA-60WP3-WT-12V	60W, 12V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C

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PCIe Card

PE-8004MX (M12)

4-port X-coded M12 10GigE PoE+ Card



Features

- 4-port Independent 10GigE LAN
- PCI Express x8 interface
- Power over Ethernet (PoE+), rugged X-coded M12 connectors, up to 25.5W Power Output at 48V DC per port
- 0°C to 50°C Operating Temperature



Specifications

Ethernet	
Power Requirement	PCI Express x8
LAN Controller	Intel® Ethernet Controller X710-AT2
LAN Controller Qty	2
Data Rate	10Gbps/*5Gbps/*2.5Gbps/1Gbps/100Mbps (*Linux only)
Number of Port	4
Connector	8-pin X-coded M12 Connector
PoE Standard	IEEE 802.3at compliant
Power Requirement	
Output	<ul style="list-style-type: none"> ▪ Up to 25.5W Power Output @48V DC per port ▪ 4 LED for PoE On/Off Mode
Power Connector	1 4-pin 12V Power Connector
Mechanical	
Dimensions (W x L)	168mm x 105mm (6.6" x 4.1")
Bracket	Full height
Environment	
Operating Temperature	0°C to 50°C with fan (32°F to 122°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

PE-8004MX	4-port 10GigE PoE+ M12 X-coded LAN Card with Intel® X710-AT2 Controllers
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PE-6004

4-port 2.5GigE PoE+ Card



Features

- 4-port independent 2.5GigE LAN
- PCI Express x4 interface
- Power over Ethernet (PoE+), up to 25.5W Power Output at 48V DC per port
- -25°C to 60°C Operating Temperature



Specifications

Ethernet	
Interface	PCI Express x4
Controller	Intel® Ethernet Controller I225-LM
Controller Qty	4
Data Rate	2.5Gbps/1Gbps/100Mbps/10Mbps
Number of Port	4
PoE Standard	IEEE 802.3at compliant
Power Requirement	
Output	<ul style="list-style-type: none"> ▪ 4 RJ45 Connector ▪ 4 LED for PoE On/Off Mode ▪ Up to 25.5W Power Output at 48V DC per port
Power Connector	1 4-pin 12V Power Connector
Mechanical	
Dimension (W x L)	167.7mm x 111.1mm (6.60" x 4.38")
Bracket	Full height
Environment	
Operating Temperature	-25°C to 60°C with air flow (-40°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

PE-6004	Intel® I225 4-CH PCI Express Card with 2.5GigE PoE+
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PE-5004

4-port 10GigE PoE* Card



Features

- 4-port independent 10GigE PoE* LAN
- PCI Express x8 interface
- Power over Ethernet (PoE*), up to 25.5W Power Output at 48V DC per port
- -25°C to 55°C Operating Temperature



Specifications

Ethernet	
Interface	PCI Express x8
Controller	Intel® Ethernet Controller XL710
Controller Qty	1
PHY	Intel® X557
PHY Qty	1
Data Rate	10Gbps/1Gbps/100Mbps
Number of Port	4
PoE Standard	IEEE 802.3at compliant
Power Requirement	
Output	<ul style="list-style-type: none"> ▪ 4 RJ45 Connector ▪ 4 LED for PoE On/Off Mode ▪ Up to 25.5W Power Output at 48V DC per port
Power Connector	1 4-pin 12V Power Connector
Mechanical	
Dimensions (W x L)	168mm x 111mm (6.6" x 4.4")
Bracket	Full height
Environment	
Operating Temperature	-25°C to 55°C with air flow (-40°F to 131°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

PE-5004	Intel® XL710 4-CH PCI Express Card with 10GigE PoE*
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PE-5002

2-port 10GigE PoE* Card



Features

- 2-port independent 10GigE PoE* LAN
- PCI Express x4 interface
- Power over Ethernet (PoE*), up to 25.5W Power Output at 48V DC per port
- -25°C to 60°C Operating Temperature



Specifications

Ethernet	
Interface	PCI Express x4
Controller	Intel® Ethernet Controller X550-AT2
Controller Qty	1
Data Rate	10Gbps/*5Gbps/*2.5Gbps/1Gbps/100Mbps (*Linux only)
Number of Port	2
PoE Standard	IEEE 802.3at compliant
Power Requirement	
Output	<ul style="list-style-type: none"> ▪ 2 RJ45 Connector ▪ 2 LED for PoE On/Off Mode ▪ Up to 25.5W Power Output at 48V DC per port
Power Connector	1 4-pin 12V Power Connector
Mechanical	
Dimension (W x L)	168mm x 111mm (6.6" x 4.4")
Bracket	Full height
Environment	
Operating Temperature	-25°C to 60°C with air flow (-40°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

PE-5002	Intel® X550-AT2 2-CH PCI Express Card with 10GigE PoE*
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PE-3014

4-port Gigabit LAN Bypass Card



Features

- 4-port Independent Gigabit Ethernet
- All-in-one, fully-integrated single-chip GigE switching solution with lower power consumption
- Supports dual hardware LAN Bypass mode
- Optional supports rugged M12 connections
- -25°C to 70°C Operating Temperature



Specifications

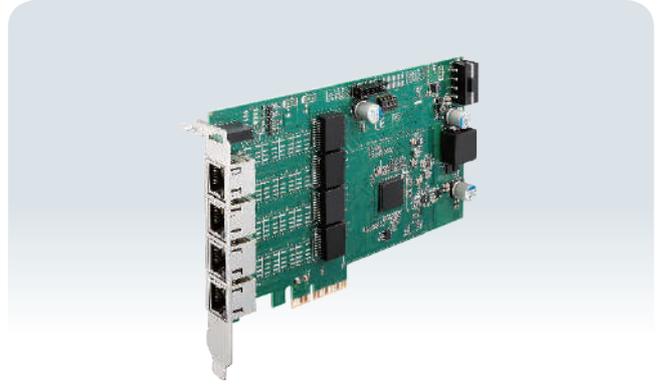
Ethernet	
Interface	PCI Express x4
Controller	Intel® Ethernet Controller I350
Controller Qty	1
Data Rate	10/100/1000 Mbps
Number of Port	4
Connector	<ul style="list-style-type: none"> ▪ 8-pin RJ45 ▪ A-coded M12 (Optional)
Jumbo Frame	Up to 9728 byte
Link Aggregation (LAG)	Present
Mechanical	
Dimensions (W x L)	168mm x 121mm (6.6" x 4.8")
Bracket	Full height
Environment	
Operating Temperature	-25°C to 70°C (-13°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

PE-3014	Intel® I350 4-CH PCI Express Card with advanced 2-pair LAN Bypass
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PE-3004

4-port Gigabit PoE+ Card



Features

- 4-port Independent Gigabit Ethernet
- Power over Ethernet (PoE+), up to 25.5W Power Output at 48V DC per port
- Optional supports rugged M12 connections
- -25°C to 70°C Operating Temperature



Specifications

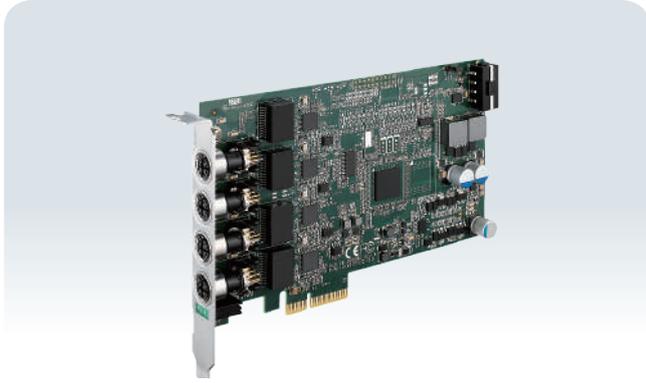
Ethernet	
Interface	PCI Express x4
Controller	Intel® Ethernet Controller I350
Controller Qty	1
Data Rate	10/100/1000 Mbps
Number of Port	4
Connector	<ul style="list-style-type: none"> ▪ 8-pin RJ45 ▪ A-coded M12 (Optional)
PoE Standard	IEEE 802.3at compliant
Power Requirement	
Output	<ul style="list-style-type: none"> ▪ 4 RJ45 PoE Port ▪ 4 A-coded M12 PoE Port (Optional) ▪ Up to 25.5W Power Output at 48V DC per port
Power Connector	1 4-pin 12V Power Connector
Mechanical	
Dimension (W x L)	168mm x 121mm (6.6" x 4.8")
Bracket	Full height
Environment	
Operating Temperature	-25°C to 70°C (-13°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

PE-3004	Intel® I350 4-CH PCI Express Card with PoE+
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PE-2004MX (M12)

4-port X-coded M12 GigE PoE+ Card



Features

- 4 independent GigE LAN
- PCI Express x4 interface
- Power over Ethernet (PoE+), rugged X-coded M12 connectors, up to 25.5W Power Output at 48V DC per port
- -25°C to 70°C Operating Temperature



Specifications

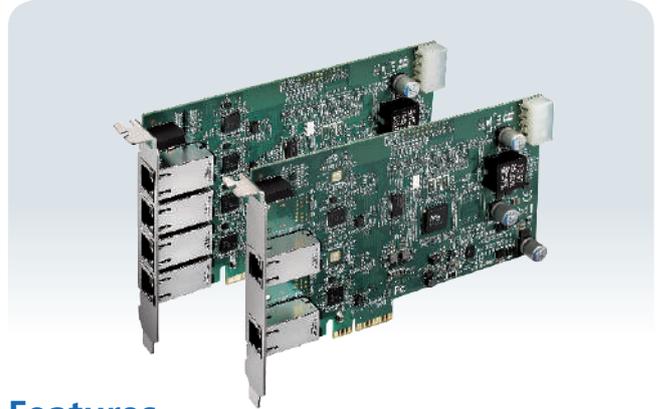
Ethernet	
Power Requirement	PCI Express x4
LAN Controller	Intel® Ethernet Controller I210
LAN Controller Qty	4
Data Rate	1Gbps/ 100 /10 Mbps
Number of Port	4
Connector	8-pin X-coded M12 Connector
PoE Standard	IEEE 802.3at compliant
Power Requirement	
Output	<ul style="list-style-type: none"> ▪ Up to 25.5W Power Output @48V DC per port ▪ 4 LED for PoE On/Off Mode
Power Connector	1 4-pin 12V Power Connector
Mechanical	
Dimensions (W x L)	168mm x 105mm (6.6" x 4.1")
Bracket	Full height
Environment	
Operating Temperature	-25°C to 70°C (-13°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

PE-2004MX	4-port GigE PoE+ M12 X-coded LAN Card with Intel® I210 Controllers
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PE-2002/2004

2/ 4-port GigE PoE+ Card



Features

- 2/ 4 Independent Gigabit LAN
- PCI Express x4 Interface
- Power over Ethernet (PoE+), Up to 25.5W Power Output at 48V DC per port
- -25°C to 70°C Operating Temperature



Specifications

Ethernet	
Interface	PCI Express x4
Controller	<ul style="list-style-type: none"> ▪ 2 Intel® I210 Gigabit LAN (PE-2002) ▪ 4 Intel® I210 Gigabit LAN (PE-2004)
Data Rate	10/ 100/ 1000 Mbps (Vary by attached Ethernet device)
Connector	8-pin RJ45
PoE Standard	IEEE 802.3at compliant
Power Requirement	
Output	<ul style="list-style-type: none"> ▪ 2 PoE ports, up to 25.5W Power Output at 48V DC per port (PE-2002) ▪ 4 PoE ports, up to 25.5W Power Output at 48V DC per port (PE-2004)
Power Connector	1 4-pin 12V Power Connector
DIO	16 Isolated DIO : 8 DI, 8 DO (Optional)
Mechanical	
Dimension (W x D x H)	168mm x 121mm x 21mm (6.6" x 4.8" x 0.8")
Environment	
Operating Temperature	-25°C to 70°C (-13°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)

Order Information

PE-2004	Intel® I210 4-CH PCI Express PoE+ Card
PE-2002	Intel® I210 2-CH PCI Express PoE+ Card

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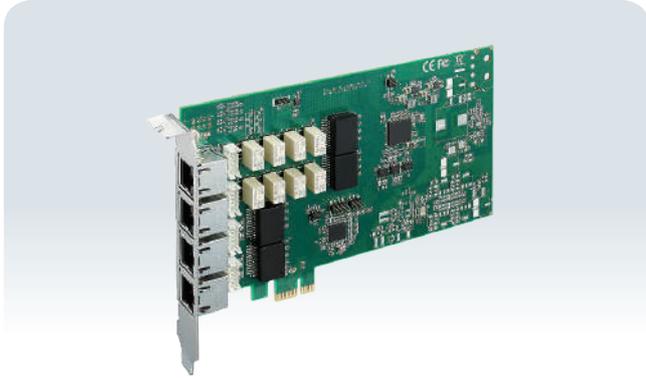
3 System On Module (SOM)

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SE-1014

4-port RJ45 LAN Switch Card with LAN Bypass



Features

- Full-featured LAN functions, up to 1000Mbps data rate
- All-in-one, fully-integrated single-chip GigE switching solution with lower power consumption
- Supports hardware LAN Bypass mode
- -40°C to 85°C Operating Temperature



Specifications

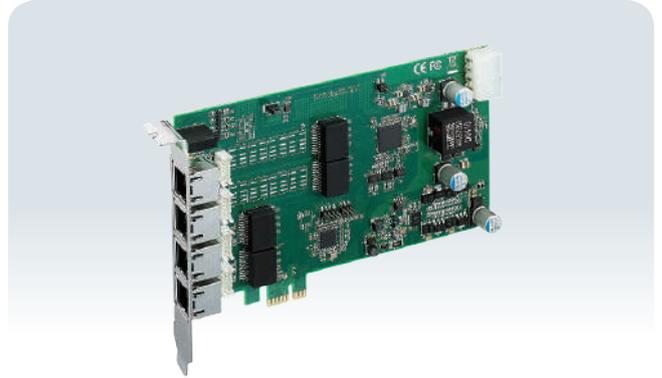
Ethernet	
Interface	PCI Express x1
Controller	Intel® Ethernet Controller I210
Controller Qty	1
Data Rate	10/100/1000 Mbps
Number of Port	4
Connector	8-pin RJ45
Mechanical	
Dimensions (W x L)	168mm x 121mm (6.6" x 4.8")
Bracket	Full height
Environment	
Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

SE-1014	4-port RJ45 PCI Express LAN Switch Card with advanced LAN Bypass
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SE-1004

4-port RJ45 LAN Switch Card with PoE+



Features

- Full-featured LAN functions, up to 1000Mbps data rate
- IEEE 802.3at Power over Ethernet (PoE+) compliant
- All-in-one, fully-integrated single-chip GigE switching solution with lower power consumption
- -40°C to 85°C Operating Temperature



Specifications

Ethernet	
Interface	PCI Express x1
Controller	Intel® Ethernet Controller I210
Controller Qty	1
Data Rate	10/100/1000 Mbps
Number of Port	4
Connector	8-pin RJ45
PoE Standard	IEEE 802.3at compliant
Power Requirement	
Output	<ul style="list-style-type: none"> ▪ 4 RJ45 PoE Port ▪ Up to 25.5W Power Output at 48V DC per port
Power Connector	1 4-pin 12V Power Connector
Mechanical	
Dimensions (W x L)	168mm x 121mm (6.6" x 4.8")
Bracket	Full height
Environment	
Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

SE-1004	4-port RJ45 PCI Express LAN Switch Card with PoE+
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LE-1055

Low Profile 2-port 10 GigE LAN Card



Features

- 10Gbps data rate
- IEEE 802.3an Fast Ethernet standard compliant
- Low Profile and Full Height form factors available
- -40°C to 55°C Operating Temperature



Specifications

Ethernet	
Interface	PCI Express x4
Controller	Intel® Ethernet Controller X550-AT2
Controller Qty	2
Data Rate	10Gbps/5Gbps/2.5Gbps/1Gbps/100Mbps
Number of Port	2
Connector	8-pin RJ45
Mechanical	
Dimensions (W x L)	168mm x 121mm (6.6" x 4.8", PCIe low profile)
Bracket	<ul style="list-style-type: none"> ▪ Full height ▪ Low profile (Optional)
Environment	
Operating Temperature	-40°C to 55°C (-40°F to 131°F, with Fan)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

LE-1055	2-port 10 GigE LAN Card with Intel® X550-AT2 Controllers
---------	--

FE-1071

Low Profile 2-port 10 GigE SFP+ Card



Features

- 10Gbps data rate
- IEEE 802.3 Fast Ethernet over optical fiber standard compliant
- Low Profile and Full Height form factors available
- -40°C to 55°C Operating Temperature



Specifications

Ethernet	
Interface	PCI Express x4
Controller	Intel® Ethernet Controller X710-BM2
Controller Qty	2
Data Rate	10Gbps
Number of Port	2
Connector	SFP+
Mechanical	
Dimensions (W x L)	168mm x 64mm (6.6" x 2.5", PCIe low profile)
Bracket	<ul style="list-style-type: none"> ▪ Full height ▪ Low profile (Optional)
Environment	
Operating Temperature	-40°C to 55°C (-40°F to 131°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

FE-1071	2-port 10 GigE SFP+ LAN Card with Intel® X710-BM2 Controllers
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UE-1008

8-port USB Card



Features

- 4 Independent USB 3.0 controllers
- 8 USB 3.0 ports
- PCI Express x4 Interface



Specifications

Ethernet	
Interface	PCI Express x4
Controller	4 Renesas μ PD720202 Host Controller
Connector	8 USB 3.0 Type-A Connector
Current Protection	User-configurable 900mA/1500mA per port current limit (Jumper)
Data Rate	<ul style="list-style-type: none">▪ Super Speed (5Gbps)▪ High Speed (480Mbps)▪ Full Speed (12Mbps)▪ Low Speed (1.5Mbps)
Mechanical	
Dimensions (W x L)	168mm x 121mm (6.6" x 4.8")
Environment	
Operating Temperature	0°C to 70°C (32°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

UE-1008	8-port USB 3.0 Host Adapter with 4 Independent USB 3.0 Controllers
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UE-1004

4-port USB Card



Features

- 4 Independent USB 3.0 controllers
- 4 USB 3.0 ports
- PCI Express x4 Interface



Specifications

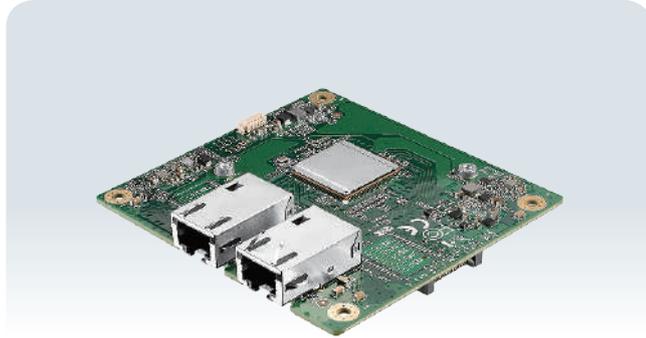
Ethernet	
Interface	PCI Express x4
Controller	4 Renesas μ PD720202 Host Controller
Connector	4 USB 3.0 Type-A Connector
Current Protection	User-configurable 900mA/1500mA per port current limit (Jumper)
Data Rate	<ul style="list-style-type: none">▪ Super Speed (5Gbps)▪ High Speed (480Mbps)▪ Full Speed (12Mbps)▪ Low Speed (1.5Mbps)
Mechanical	
Dimensions (W x L)	168mm x 121mm (6.6" x 4.8")
Environment	
Operating Temperature	0°C to 70°C (32°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

UE-1004	4-port USB 3.0 Host Adapter with 4 Independent USB 3.0 Controllers
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SUMIT Card LSM-X710-AT2

SUMIT Card with 2 10GigE LAN



Features

- Intel® X710-AT2 10GBASE-T controller
- IEEE 802.3an Fast Ethernet standard compliant
- -25°C to 50°C Operating Temperature



Specifications

Ethernet	
Controller	Intel® Ethernet Controller X710-AT2
Controller Qty	1
Data Rate	10Gbps/ 5Gbps/ 2.5Gbps/ 1Gbps/100Mbps
I/O Interface	
Bus Type	SUMIT B
LAN	2 RJ45 Connector
Mechanical	
Dimensions (W x L)	90mm x 96mm (3.5" x 3.8")
Weight	150 g
Environment	
Operating Temperature	-25°C to 50°C (-13°F to 122°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

LSM-X710-AT2	SUMIT (PCIe) Expansion Card with 2 10G RJ45 LAN
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FSM-710-BM2

SUMIT Card with 2 10GigE SFP+ Fiber LAN



Features

- Intel® X710-BM2 10Gigabit Ethernet Controller
- IEEE 802.3 Fast Ethernet over optical fiber standard compliant
- SIM Card Socket for 3G/ 4G/ LTE/ WiFi/ GPRS/ UMTS
- -25°C to 55°C Operating Temperature



Specifications

Ethernet	
Controller	Intel® Ethernet Controller X710-BM2
Data Rate	10Gbps
I/O Interface	
Bus Type	<ul style="list-style-type: none"> ▪ FSM-710-BM2 : SUMIT B ▪ FSM-710-BM2-E : SUMIT A, B
LAN	2 10GBASE SFP+ Fiber Connector
Mini PCIe	1 Full-size Mini PCIe Socket
SIM Card	1 SIM Card Socket (Internal, optional supports External I/O Type)
USB	1 USB 2.0 Connector
Mechanical	
Dimensions (W x L)	90mm x 96mm (3.5" x 3.8")
Weight	160 g
Environment	
Operating Temperature	-25°C to 55°C (-13°F to 131°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

FSM-710-BM2	SUMIT (PCIe) Expansion Card with 2 10GigE SFP+ LAN
FSM-710-BM2-E	SUMIT (PCIe) Expansion Card with 2 10GigE SFP+ LAN, 1 Mini PCIe, 1 SIM Socket, 1 USB 2.0

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LSM-200

SUMIT Card with 3-port 2.5G LAN



Features

- Intel® Ethernet Controller I225
- 3 independent LAN ports support 2.5Gbps
- -25°C to 70°C Operating Temperature
- SUMIT A, B Interface



Specifications

Ethernet	
LAN Controller	Intel® I225 Gigabit Ethernet Controller
Controller Qty	3
Data Rate	2.5Gbps/1Gbps/100Mbps/10Mbps
I/O Interface	
Bus Type	SUMIT A, B
LAN	3 RJ45 Connector
Mechanical	
Dimensions (W x L)	90.0mm x 96.0mm (3.54" x 3.78")
Weight	145 g
Environment	
Operating Temperature	-25°C to 70°C (-13°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

LSM-200	SUMIT (PCIe) Card with 3 Channel 2.5G LAN
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LSM-100

SUMIT Card with 3-port GigE LAN



Features

- Intel® I210 Gigabit Ethernet Controller
- IEEE 802.3ab Gigabit Ethernet standard compliant
- 3 independent GigE LAN Connection
- -25°C to 85°C Operating Temperature
- SUMIT A, B Interface



Specifications

Ethernet	
Controller	Intel® I210 Gigabit Ethernet Controller
Controller Qty	3
Data Rate	1Gbps/ 100Mbps/ 10Mbps
I/O Interface	
Bus Type	SUMIT A, B
LAN	3 RJ45 Connector
Mechanical	
Dimensions (W x L)	90mm x 96mm (3.5" x 3.8")
Weight	150 g
Environment	
Operating Temperature	-25°C to 85°C (-13°F to 185°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

LSM-100-3	SUMIT (PCIe) Card with 3 Channel GigE LAN
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FSM-200

SUMIT Card with 2 1000BASE SFP Fiber LAN



Features

- Intel® I350 Gigabit Ethernet Controller
- IEEE 802.3 Fast Ethernet over optical fiber standard compliant
- Dual 100BASE-FX fiber ports



Specifications

Ethernet	
Controller	Intel® Ethernet Controller i350
Controller Qty	1
I/O Interface	
Bus Type	SUMIT B
LAN	2 1000BASE SFP Fiber Connector
PS/2	1 PS/2 KB/MS Connector (Optional)
Mechanical	
Dimensions (W x L)	90mm x 96mm (3.5" x 3.8")
Weight	150 g
Environment	
Operating Temperature	0°C to 60°C (32°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

FSM-200	SUMIT (PCIe) Expansion Card with 2 1000BASE SFP Fiber LAN
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FSM-100

SUMIT Card with 2 100BASE-FX GigE Fiber LAN



Features

- Intel® 82574 Gigabit Ethernet Controller
- IEEE 802.3 Fast Ethernet over optical fiber standard compliant
- Dual 100BASE-FX fiber ports



Specifications

Ethernet	
Controller	Intel® 82574L Gigabit Ethernet Controller
Controller Qty	2
Data Rate	1Gbps
I/O Interface	
Bus Type	SUMIT A, B
LAN	2 100BASE-FX Fiber Connector
PS/2	1 PS/2 KB/MS Connector (Optional)
Mechanical	
Dimensions (W x L)	90mm x 96mm (3.5" x 3.8")
Weight	170 g
Environment	
Operating Temperature	0°C to 60°C (32°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing

Order Information

FSM-100FX	SUMIT (PCIe) Expansion Card with 2 100BASE-FX Fiber LAN, 1 PS/2 KB/MS
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Mini PCIe Module DMX-110

Mini PCIe Digital I/O Card, 32-bit Isolated DIO



Features

- 4KV Isolated Protection for each channel
- -40°C to 85°C Operating Temperature
- 32-bit Programmable signals
- 4 ports digital signal, each with 8-bit GPIO
- Onboard Interrupt supports Rising/Falling Edge
- Programmable Timer and Counter for status monitoring
- Isolated DIO Control : Sink Mode/Source Mode



Specifications

Ethernet	
Interface	USB 2.0
Number of port	4 (8-bit GPIO/each)
Power Input	3.3V DC-in
I/O Voltage	3.3V
Isolated DIO Expansion Card (DMX-100-E)	
Number of port	- Input : 2 (8-bit GPIO/each) - Output : 1 with 16-bit Isolated DIO
I/O Voltage	- Sink Mode : 6V to 40V - Source Mode : 6V to 48V
Mechanical	
Dimensions (W x L)	▪ DMX-100-M : 30.0mm x 50.9mm ▪ DMX-100-E : 45.0mm x 55.0mm ▪ Cable Length : 250mm
Weight	160 g
Environment	
Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Packing List	
- 1 DMX-100-M GPIO Card - 4 Isolated DIO Cable - 1 Screw Kit - 2 Bracket	- 2 DMX-100-E Isolated DIO Expansion Card - 2 Sink/Source Mode Control Cable - 2 Terminal block 20-pin (2.54mm)

Order Information

DMX-110	Mini PCIe 32-bit GPIO Card with Isolated DIO Expansion Card
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DMX-100

Mini PCIe Digital I/O Card, 32-bit GPIO



Features

- -40°C to 85°C Operating Temperature
- 32-bit Programmable signals
- 4 ports digital signal, each with 8-bit GPIO
- Onboard Interrupt supports Rising/Falling Edge
- Programmable Timer and Counter for status monitoring



Specifications

Ethernet	
Interface	USB 2.0
Number of port	4 (8-bit GPIO/each)
Power Input	3.3V DC-in
I/O Voltage	3.3V
Mechanical	
Dimensions (W x L)	▪ DMX-100-M : 30.0mm x 50.9mm ▪ Cable Length : 250mm
Weight	160 g
Environment	
Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Packing List	
- 1 Screw Kit - 2 Bracket	- 1 DMX-100-M GPIO Card - 4 GPIO Cable

Order Information

DMX-100	Mini PCIe 32-bit GPIO Card
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SMX-200

Mini PCIe 4-port Isolated RS-232/422/485 Serial Card



Features

- 4-port high-speed RS-232/422/485
- Each serial channel supports up to 2.5kV Isolation
- Up to 31.25Mbps super fast data transmission
- -40°C to 85°C Operating Temperature
- Interrupt Status Register for Performance Enhancement



Specifications

Ethernet	
Interface	Mini PCIe
Controller	EXAR XR17V354
Standard	RS-232/422/485 (2.5kV Isolation)
Number of Port	4
Baud Rate	Up to 921.6kbps
FIFOs	256 byte
Flow Control	CTS/RTS, Xon/Xoff
Mechanical	
Dimensions (W x L)	<ul style="list-style-type: none"> ▪ Mini Card : 30mm x 51mm ▪ Cable Length : 260mm
Weight	145 g
Environment	
Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Packing List	
- 1 SMX-200 Serial Card	- 1 Screw Kit
- 2 Cable Set	- 2 Bracket
- 1 Driver CD	

Order Information

SMX-200	4-port Isolated RS-232/422/485 Serial Card
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SMX-100

Mini PCIe 4-port RS-232/422/485 Serial Card



Features

- 4 high-speed RS-232/422/485 ports
- Up to 31.25Mbps super fast data transmission
- -40°C to 85°C Operating Temperature
- 3kV ESD Protection
- Interrupt Status Register for Performance Enhancement



Specifications

Ethernet	
Interface	Mini PCIe
Chipset	EXAR XR17V354
Standard	RS-232/422/485
Number of Port	4
Baud Rate	Up to 921.6kbps
FIFOs	256 byte
Flow Control	CTS/RTS, Xon/Xoff
Mechanical	
Dimensions (W x L)	<ul style="list-style-type: none"> ▪ Mini Card : 30mm x 51mm ▪ Cable Length : 300mm
Weight	145 g
Environment	
Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Packing List	
- 1 SMX-100 Serial Card	- 1 Screw Kit
- 2 Cable Set	- 1 Bracket
- 1 Driver CD	

Order Information

SMX-100	4-port RS-232/422/485 Serial Card
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PMX-101

Mini PCIe 2-port PoE+ GigE Card with DC Jack



Features

- 2 GigE LAN ports support IEEE 802.3at PoE+ with 12V to 24V Power Input
- -40°C to 85°C Operating Temperature
- IEEE 802.3, 802.3u and 802.3ab compliant



Specifications

Ethernet	
Interface	PCI Express x1
Controller	Intel® I210 Gigabit LAN
Data Rate	10/100/1000 Mbps
Number of Port	2
Connector	8-pin RJ45
PoE Standard	IEEE 802.3at compliant
Power Requirement	
Input	12V to 24V, DC Jack
Output	Up to 25.5W Power Output at 48V DC per port
Mechanical	
Dimensions (W x L)	<ul style="list-style-type: none"> ▪ Mini Card : 30mm x 51mm ▪ Daughter Card : 56mm x 61mm ▪ Cable Length : 300mm
Weight	145 g
Environment	
Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Packing List	
<ul style="list-style-type: none"> - 1 Driver CD - 1 Screw Kit - 1 Bracket 	<ul style="list-style-type: none"> - 1 PMX-100 PoE GigE Card - 1 RJ45 Daughter Card - 1 Connection Cable

Order Information

PMX-101	Mini PCIe 2-port PoE+ GigE Card with DC Jack
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PMX-100

Mini PCIe 2-port PoE+ GigE Card



Features

- 2 GigE LAN ports support IEEE 802.3at PoE+ with 12V to 24V DC Power Input
- -40°C to 85°C Operating Temperature
- IEEE 802.3, 802.3u and 802.3ab compliant



Specifications

Ethernet	
Interface	PCI Express x1
Controller	Intel® I210 Gigabit LAN
Data Rate	10/100/1000 Mbps
Number of Port	2
Connector	8-pin RJ45
PoE Standard	IEEE 802.3at compliant
Power Requirement	
Input	12V to 24V
Output	Up to 25.5W Power Output at 48V DC per port
Mechanical	
Dimensions (W x L)	<ul style="list-style-type: none"> ▪ Mini Card : 30mm x 51mm ▪ Daughter Card : 56mm x 61mm ▪ Cable Length : 300mm
Weight	145 g
Environment	
Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Packing List	
<ul style="list-style-type: none"> - 1 Driver CD - 1 Screw Kit - 1 Bracket 	<ul style="list-style-type: none"> - 1 PMX-100 PoE GigE Card - 1 RJ45 Daughter Card - 1 Connection Cable

Order Information

PMX-100	Mini PCIe 2-port PoE+ GigE Card
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LMX-200

Mini PCIe 2-port Gigabit LAN Card



Features

- 2 GigE LAN ports, up to 1Gbps data rate
- IEEE 802.3, 802.3u and 802.3ab compliant
- PCI Express x1 Interface
- -40°C to 85°C Operating Temperature



Specifications

Ethernet	
Interface	PCI Express x1
Chipset	2 Intel® I210 Gigabit LAN
Data Rate	10/100/1000 Mbps
Number of Port	2
Connector	8-pin RJ45
Mechanical	
Dimensions (W x L)	<ul style="list-style-type: none"> ▪ Mini Card : 30mm x 51mm ▪ Daughter Card : 50.5mm x 27.7mm ▪ Cable Length : 300mm
Weight	145 g
Environment	
Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Packing List	
- 1 Driver CD	- 1 LMX-200 Mini PCIe LAN Card
- 1 Screw Kit	- 1 RJ45 Connector Card
- 1 Bracket	- 1 Connection Cable

Order Information

LMX-200	Mini PCIe 2-port Gigabit LAN Card
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UMX-100

Mini PCIe 2-port USB 3.0 Card



Features

- 2 high-speed USB 3.0 ports, up to 5Gbps data rate
- USB 3.0 Rev. 1.0 compliant
- Intel® xHCI Rev. 1.0 compliant
- PCI Express x1 Interface
- -40°C to 85°C Operating Temperature



Specifications

Ethernet	
Interface	Mini PCIe
Controller	Renesas μPD720202
Standard	USB 3.0 Rev. 1.0 compliant
Number of Port	2
Data Rate	Up to 5Gbps
Link Aggregation	Present
Connector	19-pin Header
Mechanical	
Dimensions (W x L)	<ul style="list-style-type: none"> ▪ Mini Card : 30mm x 51mm ▪ Cable Length : 320mm
Weight	152 g
Environment	
Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Packing List	
- 1 Driver CD	- 1 UMX-100 Mini PCIe USB Card
- 1 Screw Kit	- 1 Cable Set
- 1 Bracket	

Order Information

UMX-100	Mini PCIe 2-port USB Card
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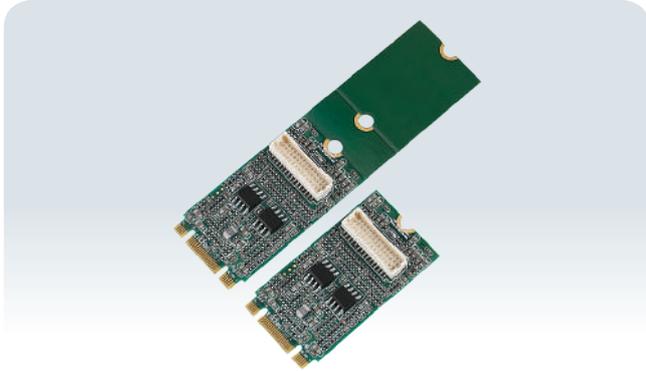
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M.2 Module LMT-100P

M.2 2-port GigE LAN Card with PoE*



Features

- Intel® I210 Ethernet Controller supports 2-port independent GigE LAN
- IEEE 802.3at PoE* with 12V to 24V Power Input
- Flexible supports M.2 Key B, Key M
- Foldable design supports multiple M.2 form factors : 2242, 2252, 2280
- -40°C to 85°C Operating Temperature



Specifications

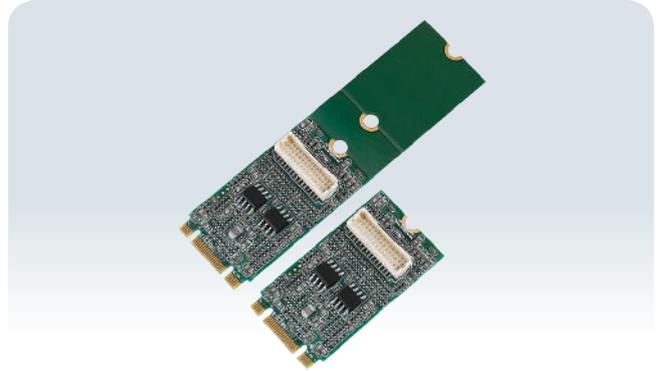
Ethernet	
LAN Controller	Intel® I210 Ethernet Controller
Data Rate	1Gbps/100Mbps/10Mbps
Connector	8-pin RJ45
VLAN	802.1Q VLAN supported
Power Requirement	
PoE Standard	IEEE 802.3at compliant
Power Input	12V to 24V
Power Output	Up to 25.5W Power Output at 48V DC per port
Mechanical	
Dimensions (W x L)	<ul style="list-style-type: none"> ▪ M.2 Card : 22mm x 80mm (Foldable design for 22mm x 42mm or 22mm x 52mm) ▪ Daughter Card for LMX-100 : 50.5mm x 27.7mm ▪ Daughter Card for LMX-100P : 56mm x 61mm ▪ Cable Length : 300mm
Weight	145 g
Environment	
Operating Temperature	-40°C to 85°C (-40°F to 185°F), with air flow
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Packing List	
- 1 Driver CD	- 1 M.2 LAN Card
- 1 Screw Kit	- 1 RJ45 I/O Card
- 1 Bracket	- 1 Connection Cable

Order Information

LMT-100P	Intel® I210 M.2 2-port PoE* GigE LAN Card
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LMT-100

M.2 2-port GigE LAN Card



Features

- Intel® I210 Ethernet Controller supports 2-port independent GigE LAN
- Flexible supports M.2 Key B, Key M
- Foldable design supports multiple M.2 form factors : 2242, 2252, 2280
- -40°C to 85°C Operating Temperature



Specifications

Ethernet	
LAN Controller	Intel® I210 Ethernet Controller
Data Rate	1Gbps/100Mbps/10Mbps
Connector	8-pin RJ45
VLAN	802.1Q VLAN supported
Mechanical	
Dimensions (W x L)	<ul style="list-style-type: none"> ▪ M.2 Card : 22mm x 80mm (Foldable design for 22mm x 42mm or 22mm x 52mm) ▪ Daughter Card for LMX-100 : 50.5mm x 27.7mm ▪ Daughter Card for LMX-100P : 56mm x 61mm ▪ Cable Length : 300mm
Weight	145 g
Environment	
Operating Temperature	-40°C to 85°C (-40°F to 185°F), with air flow
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Packing List	
- 1 Driver CD	- 1 M.2 LAN Card
- 1 Screw Kit	- 1 RJ45 I/O Card
- 1 Bracket	- 1 Connection Cable

Order Information

LMT-100	Intel® I210 M.2 2-port GigE LAN Card
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