Ei-A110

Edge Intelligence System Powered By WISE-DeviceOn

Features

- Integrated hardware plus software to build up edge-to-cloud applications
- Powered by WISE-DeviceOn for IoT device remote and operation management
- Pre-configured system: Intel® Celeron® N3350 dual core, Windows 10 IoT Enterprise, 4G DDR3L memory and 64G SSD
- DIN-Rail system with essential I/O ports on front-side bezel
- 12V ~ 28V wide range power input
- -30 ~ 70 °C extended operating temperature

WISE-DeviceOn ADVANTECH WISE-Marketplace

Introduction

To fulfill customer requirements in edge computing trend, Advantech offers Ei-A110 Edge Intelligence System integrated hardware plus software solution powered by WISE-DeviceOn. It allows users to incorporate sensor data aggregation, edge analytics, and cloud integration for fast and easy real-time edge intelligence, and plus the flexibility to add on more software modules from the WISE-PaaS marketplace that enable IoT connectivity, data manageability and analytics in the edge.

WISE-DeviceOn Function Highlights

Device Management
- Remote Monitoring & Control
- Device Onboarding & Registration

Connectivity Service
- Industrial Protocol Connectivity
- Plug-n-Play Peripherals

System Security
- McAfee Application Control
- Acronis Backup Recovery

Edge Intelligence
- Real-Time Data Processing
- Data Analysis & Filtering

Cloud Integration
- Pre-Configured with Azure, Ali, AWS
- Data Intelligence & AI Enabling

WISE-Marketplace Integration
- Over 200+ I.App Offerings
- Easy to Purchase and Deploy

Specifications

Model Name		Ei-A110
Processor System	CPU	Intel Celeron N3350 Dual Core SoC, 1.1GHz, turbo burst up to 2.4GHz
Memory	Technology	DDR3L 1866 Mhz, 1x 4GB (-40 ~ 85°C) built-in
Graphics	Chipset	Intel HD Graphics 500, CPU integrated
	Graphic Engine	Gen9 Low Power; 18 Execution Units Media Codec Supported: H.264, MPEG2, MVC, VC-1, WMV9, H.265 / HEVC, VP8, JPEG / MJPEG 3D HW Acceleration: OpenGL 4.4, DirectX* 12, OpenCL* 2.0
	HDMI	HDMI1/2: 3840 x 2160 @ 30Hz, dual display
Ethernet	LAN1/2	10/100/1000 Mbps Intel i210GbE, support Wake On LAN
Audio	Interface	Realtek ALC888S, High Defination Audio, Mic-in, Line-out
I/O Interface	Seriel Ports	2 x RS-232/422/485 with auto flow control, COM2 with 5V/12V power supply
	USB Ports	4 x USB 3.0
	GPIO	8-bit Programmable DIO (Optional)
Expansion	Mini PCIe	1 x Full-size mPCIe with SIM holder #1
	M.2	1 x M.2 2230 E key for WIFI module #1
Storage	SSD/HDD	1 x 2.5" 64G MLC SSD (-40~85°C) built-in
	mSATA	1 x Full-size mSATA (*share with mPCIe slot)
Other	TPM	SLB9665XQ2.0 FW 5.62 built-in
	WatchDog Timer	255 levels timer interval, setup by software
Software Support	Microsoft Windows	Windows 10 IoT Enterprise built-in
Power Requirement	Power Input Voltage	12 ~ 28 V_{DC}
	Power Adaptor	AC to DC, 24V/2.5A 60W adaptor built-in
Power Consumption	Typical	6.4W
	Max.	18.1W
Mechanical	Mounting	DIN-rail/Wall Mount
	Dimensions (W x H x D)	53.5 x 158 x 114 mm (2.11" x 6.22" x 4.49")
	Weight	1.2 kg (2.65lb)
Environment	Operating Temperature	With extended temp. peripherals: -30 ~ 70 °C (-22 ~ 158 °F) with 0.7 m/s air flow
	Vibration during Operation	With SSD: 3 Grms, IEC60068-2-64, random, 5~500 Hz, 1hr/axis
	Shock during Operation	With SSD: 30 G, IEC-60068-2-27, half sine, 11 ms duration
	EMC	CE/FCC Class B, CCC, BSMI
	Safety	UL, CB, CCC and BSMI

#1 SIM holder and M.2 slot are hardware interface for wireless communication integration only. System level RF certification is not available.

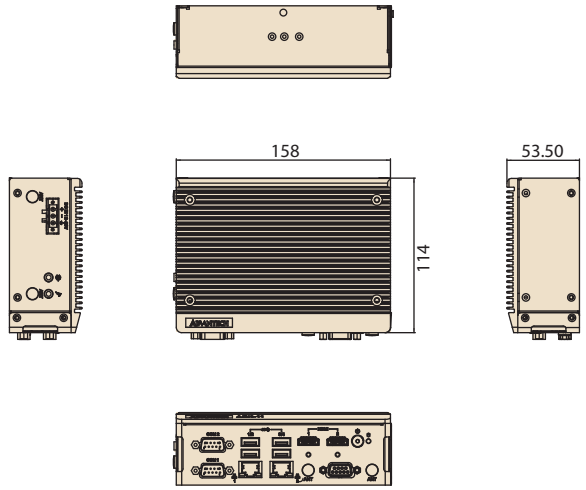
研伟科技 15323776600

All product specifications are subject to change without notice.

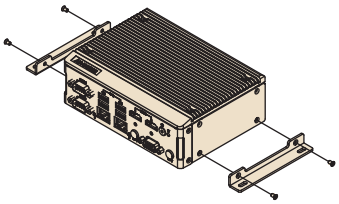
Last updated: 16-Dec-2020

Dimensions

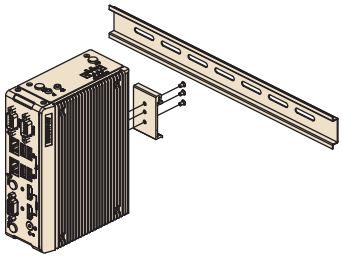
Unit: mm



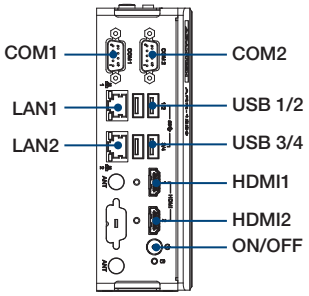
Wall Mount



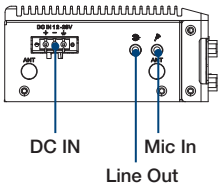
DIN Rail



Front Panel External I/O Mechanical Layout/Drawing



Top Panel External I/O Mechanical Layout/Drawing



Ordering Information

Part No.	CPU	RAM	HDMI	GbE	USB 3.0	RS-232/ 422/485	Audio	Full-size MiniPCIe	M.2	2.5" SATA III HDD Bay	mSATA	Power Input	OS	Operating Temp.
Ei-A110-S1A1	Intel Celeron N3350 1.1 GHz SoC	4GB built-in	2	2	4	2	Mic-in, Line-out	1	1	64GB SSD built-in	1 (shared w/ mPCIe)	12~28 V_{DC}	WIN 10 IoT	-30 ~ 70 °C

Note: Memory, storage and operating system bundled by request.

Packing List

Part Number	Description
-	1 x Ei-A110 Unit
-	1 x User Manual (Simplified Chinese)
-	Wrench for top cover
1960015198T011	1 x DIN-rail bracket
1652004519	1 x 3-pin terminal block
96PSA-A60W24T2	24V/2.5A 60W adaptor

Optional Items

Part Number	Description
1702002600	Power cable 3-pin 183cm, USA type
1702002605	Power cable 3-pin 183cm, EU type
1702031801	Power cable 3-pin 183cm, UK type
1700000237	Power cable 3-pin 183cm, PSE type
1700023855-01	1M lockable HDMI cable
1700023856-01	3M lockable HDMI cable
1700019967	GPIO cable, F Cable 2*5P-2.0/D-SUB 9P(F) 15CM
AMK-W003	Ei-A110 wall mount kit