

Ei-U247

Edge Intelligence System Powered By WISE-DeviceOn

NEW



Features

- Integrated hardware plus software to build up edge-to-cloud applications
- Powered by WISE-DeviceOn for IoT device remote and operation management
- Intel® Celeron® J3455 processor
- Robust design with high stability
- 2 x GbE, 2 x USB3.0, 2 x USB2.0, 4 x RS232, 2 x RS485, 1 x HDMI, 1 x VGA
- Compact size with fanless design
- Rubber stopper design for stand mount and optional kit for DIN-rail mount
- Optional 3G/GPS/GPRS/Wi-Fi communication
- Threaded DC Jack design for more steady power supply
- Optimized mechanical design for easier RAM swapping

Introduction

Cloud-to-Edge system intergration is inevitably set to play an increasingly important role in IoT world. Ei-U247, powered by DeviceOn, simplifies the remote monitoring and management and offers Plug-and-Play with zero-touch type provisioning with the variety of Advantech industrial Apps.

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

General

- **Certification** CE, FCC, UL, CCC, BSMI
- **Dimensions (W x D x H)** 200 x 140 x 50 mm (7.8" x 5.5" x 1.9")
- **Form Factor** Regular Size
- **Enclosure** Aluminum Housing
- **Mounting** Stand Mount, DIN-Rail (Optional)
- **Weight (Net)** 1.0kg (2.2lbs)
- **Power Requirement** 12V_{DC}
- **Power Consumption** 17W (Typical), 31W (Max)
- **OS Support** WIN10 IoT Enterprise LTSC V6.04 B016

System Hardware

- **BIOS** AMI UEFI64 Mbit
- **Watchdog Timer** Programmable 255 levels timer interval, from 1 to 255 sec
- **TPM** Support by project
- **Processor** Intel® Apollo Lake Celeron® J3455 1.5GHz
- **Memory** 1 x slot (DDR3L SO-DIMM support up to 8GB)
- **Graphics Engine** Intel HD Graphics
- **Ethernet** 10/100/1000 Mbps Realtek RTL8111G-CG
- **LED Indicators** LEDs for Power and HDD
- **Storage** 1 x full size mSATA with built-in 120G SSD
1 x drive bay for SATA 2.5" HDD
(Compatible with 9.5mm height HDD)
- **Expansion** 1 x Full size mPCIe slot (PCIe/ USB Signal)
1 x M.2 (2230, E Key)
1 x Micro SIM card slot

I/O Interfaces

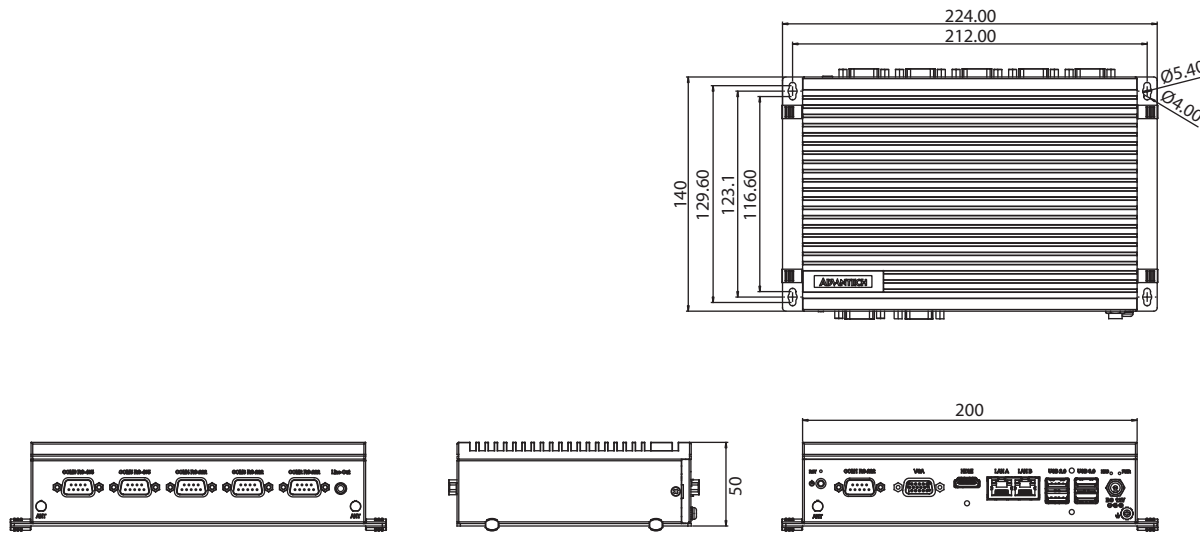
- **Serial Ports** 4 x RS232
2 x RS485 DB9, 50bps ~ 115.2kbps
- **LAN Ports** 2 x RJ45, 10/100/1000 Mbps IEEE 802.3u
1000BASE-T Fast Ethernet
- **USB Ports** 2 x USB 3.0, 2 x USB 2.0
- **Displays** 1 x HDMI 1.4b (3840x2160@30Hz)
1 x VGA (1920x1080@60Hz)
- **Power Connector** 1 x Lockable DC Jack

Environment

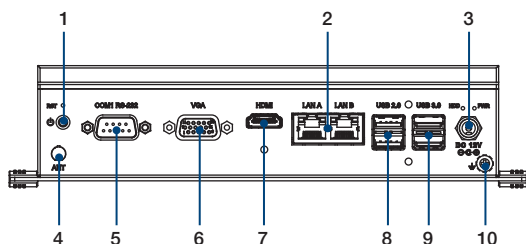
- **Operating Temperature** 0~50°C with 0.7m/s air flow
-20 ~ 60°C with 0.7m/s air flow (With extended temperature peripherals, refer to optional memory list on page 2)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Relative Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- **Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11ms
- **Vibration Protection** Operating, IEC 60068-2-64, 3Grms, random, 5 ~ 500Hz, 1hr/axis (mSATA)
Operating, IEC 60068-2-64, 0.5Grms, random, 5 ~ 500Hz, 1hr/axis (HDD)

Dimensions

Unit: mm

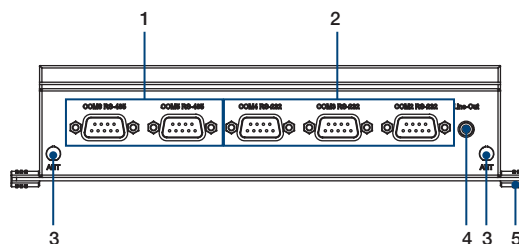


Front I/O View



- | | |
|--------------------------|-----------------------|
| 1. Power Button | 6. VGA |
| 2. RJ45 LAN | 7. HDMI |
| 3. DC Power | 8. USB2.0 |
| 4. Reserved Antenna Hole | 9. USB3.0 |
| 5. RS-232 | 10. Chassis Grounding |

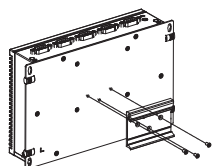
Rear I/O View



- | | |
|--------------------------|-------------------|
| 1. RS-485 | 4. Line Out |
| 2. RS-232 | 5. Rubber Stopper |
| 3. Reserved Antenna Hole | |

Installation Scenario

DIN-rail Mount Illustration (with optional DIN-rail kit)



Ordering Information

- Ei-U247 UNO-247-J1N1AE w/ WISE-DeviceOn

Packing list

Part Number	Description
96PSA-A36W12W7-5	ADP A/D 100-240V 36W 12V WO/PFC

Optional Memory List

System operating Temperature	Memory capacity	Memory P/N
0~50°C	2GB	AQD-SD3L2GN16-SQ1
	4GB	AQD-SD3L4GN16-SG1
	8GB	AQD-SD3L8GN16-SG1
-20~60°C	2GB	SQR-SD3I-2G1K6SNLB
	4GB	SQR-SD3I-4G1K6SNLB
	8GB	SQR-SD3I-8G1K6SNLB

Optional Accessories

- 1700001524 Power Cable 3-pin 1.8M, USA type
- 170203183C Power Cable 3-pin 1.8M, Europe type
- 170203180A Power Cable 3-pin, 1.8M, UK type
- UNO-400-DIMKAE DIN Rail Kit