

ESRP-RMM-UNO247

IoT Edge Computer with Intel® Celeron® J3455 Processor, 2 x LAN, 6 x COM, 4 x USB, 1 x HDMI, and 1 x VGA

NEW



Features

- Intel® Celeron® J3455 processor
- Robust yet compact fanless design with high stability
- 2 x GbE, 2 x USB 3.0, 2 x USB2.0, 4 x RS232, 2 x RS485, 1 x HDMI, 1 x VGA
- Rubber stopper for stand mount and optional DIN-rail mount kit
- Optional 3G/GPS/GPRS/Wi-Fi communication capabilities
- Threaded DC power jack ensures a secure and stable connection
- Optimized mechanical design for easy RAM swapping
- Supports WISE-PaaS/DeviceOn and WISE-Marketplace

Introduction

Cloud-to-Edge system intergration is inevitably set to play an increasingly important role in IoT world. ESRP-RMM-UNO247, 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 in)
- **Form Factor** Regular size
- **Enclosure** Aluminum housing
- **Mount Options** Stand, DIN rail (optional)
- **Weight (Net)** 1.0 kg (2.2 lb)
- **Power Requirement** 12V_{DC}
- **Power Consumption** 17W (typical), 31W max.
- **OS Support** Windows 10 IoT Enterprise LTSC

System Hardware

- **BIOS** AMI UEFI 64 Mbit
- **Watchdog Timer** Programmable timer with 255 interval levels, from 1 to 255 seconds
- **TPM** Available upon request
- **Processor** Intel® Celeron® J3455, 1.5 GHz
- **Memory** 1 x DDR3L SODIMM slot (up to 8 GB)
- **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 2.5" SATA HDD drive bay (compatible with 9.5 mm HDD height)
- **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

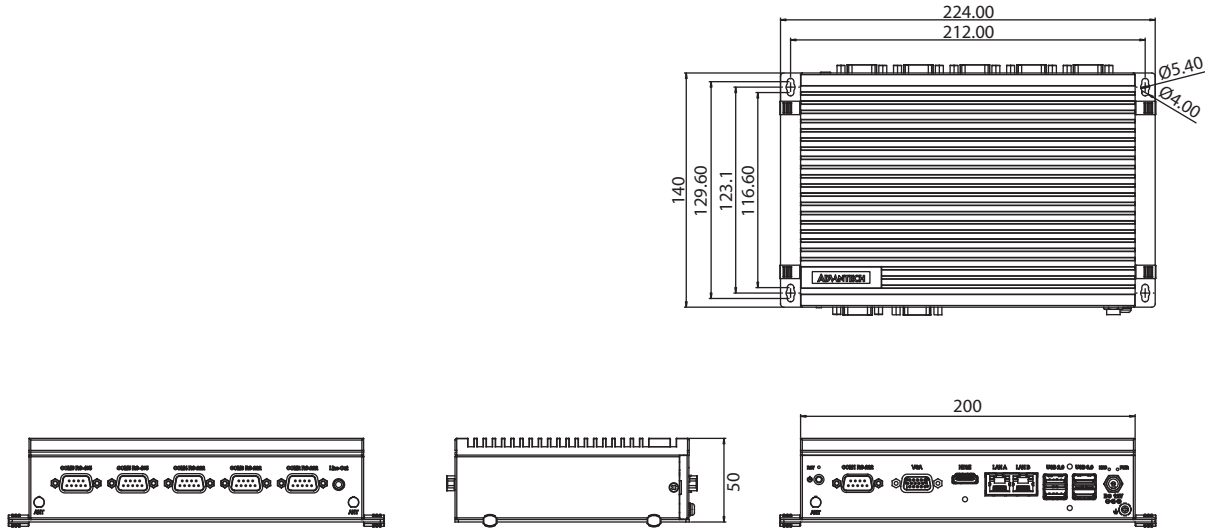
- **Serial Ports** 4 x RS232
2 x RS485 DB9, 50bps ~ 115.2kbps
- **LAN Ports** 2 x RJ45, 10/100/1000 Mbps IEEE 802.3u
1000BASE-T fast Ethernet
- **USB Ports** 2 x USB 3.0, 2 x USB 2.0
- **Displays** 1 x HDMI 1.4b (3840 x 2160 @30 Hz)
1 x VGA (1920 x 1080 @60 Hz)
- **Power Connector** 1 x Lockable DC jack

Environment

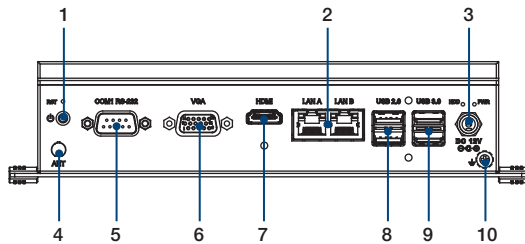
- **Operating Temperature** 0 ~ 50 °C/30 ~ 122 °F with 0.7m/s airflow
-20 ~ 60 °C/-4 ~ 140 °F with 0.7m/s airflow
(with extended temperature peripherals, refer to the optional memory list on page 2)
- **Storage Temperature** -40 ~ 85 °C (-40 ~ 185 °F)
- **Relative Humidity** 10 ~ 95% RH @ 40 °C/104 °F, 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

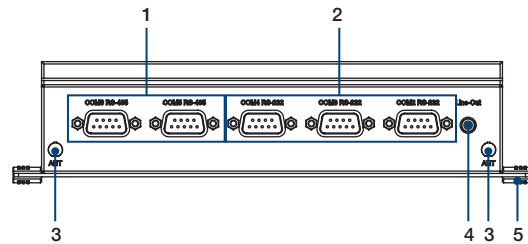


Front I/O View



- | | |
|----------------------------|-----------------------|
| 1. Power button | 6. VGA |
| 2. RJ45 LAN | 7. HDMI |
| 3. DC power | 8. USB2.0 |
| 4. Reserved antenna socket | 9. USB3.0 |
| 5. RS-232 | 10. Chassis grounding |

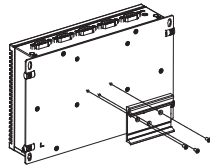
Rear I/O View



- | | |
|----------------------------|-------------------|
| 1. RS-485 | 4. Line out |
| 2. RS-232 | 5. Rubber stopper |
| 3. Reserved antenna socket | |

Installation Scenario

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



Ordering Information

- ESRP-RMM-UNO247 UNO-247, 4G Memory, 120G SSD, Win10, DeviceOn

Packing list

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

Optional Memory List

Operating Temperature	Memory Capacity	Part Number
0 ~ 50 °C/30 ~ 122 °F	2 GB	AQD-SD3L2GN16-SQ1
	4 GB	AQD-SD3L4GN16-SG1
	8 GB	AQD-SD3L8GN16-SG1
-20 ~ 60 °C/-4 ~ 140 °F	2 GB	SQR-SD3I-2G1K6SNLB
	4 GB	SQR-SD3I-4G1K6SNLB
	8 GB	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-DMKAE DIN-rail kit