

ESRP-AWS-U2484

Amazon IoT Edge Starter Kit with UNO-2484



Features

- Extends cloud intelligence and analytics to edge devices
- Boosts productivity and response times with data insights
- Advantech Edgelink for downlink and uplink support
- Offers secure cloud communication and edge intelligence

Introduction

The ESRP-AWS-U2484 edge intelligence computer is a great solution for extending cloud intelligence and analytics to edge devices. IoT solutions, such as stream analytics, machine learning, image recognition, and other high-value AI modules can be deployed from the Amazon cloud to the edge to support diverse applications. All data are collected and delivered to the cloud by WISE-EdgeLink. It supports more than 200 PLC devices for collecting data and features plug-and-play functionality which reduces software development time. This eliminates the gap between OT and IT.

Feature Details

Extends cloud intelligence and analytics to edge devices

Stream analytics, OPC UA publisher, Modbus, and other high-value AI modules can be deployed from the cloud to the edge to support diverse applications.

Boosts productivity and response times with data insights

Local data processing enables immediate decision-making and reduces bandwidth costs by minimizing the data transmitted from local devices to the cloud.

WISE-EdgeLink provides downlink and uplink support

WISE-EdgeLink supports more than 200 PLC protocol drivers for collecting data from devices and features plug-and-play functionality which reduces software development time.

Specifications

General

- **Certification** CE, FCC, UL, CCC, BSMI
- **Dimensions (W x D x H)** 200 x 140 x 40 (7.8" x 5.6" x 1.6")
- **Enclosure** Aluminum housing
- **Mounting** Stand, Wall, VESA (optional), DIN-rail (optional)
- **Weight (Net)** Single stack: 1.4 kg (3.09 lb)
- **Power Requirement** 10 ~ 36 V_{DC}
- **Power Consumption** 55W (typical), 95.2W (max)

Software

- **Operating System** Ubuntu 18.04, Kernel 4.15.0-43-generic
- **Application** AuthServer r3678, EAPI v1.0.9, EdgeLink-Linux v2.7.3, EdgeManager r3668, Moby engine v3.0.2, appupdate e71082e5, iotedge v1.0.8-2, iotedgecli r3163, wise-agent 1.4.32.0

System Hardware

- **BIOS** AMI EFI 64 Mbit
- **Watchdog Timer** Programmable timer with 255 intervals from 1 to 255 sec
- **Processor** Intel® Core™ i5-7300U, 2.6GHz
- **Memory** Built-in 8GB DDR4 2133 MHz
- **Ethernet** LAN A: Intel® i219-IT GbE, 802.1Qav, IEEE 1588/802.1AS, 802
LAN B-D: Realtek i8119i GbE, IEEE 802.1Qav, IEEE 1588/802.1AS, 802
- **LED Indicators** LEDs for Power, HDD, LAN (active status), RTC battery low
- **Storage** 32G SSD
- **Expansion** 1 x full-size mPCIe slot for single stack version

I/O Interfaces

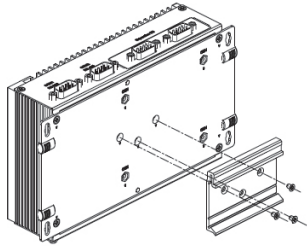
- **Serial Ports** 4 x RS 232/422/485
- **LAN Ports** 4 x RJ-45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T fast ethernet
- **USB Ports** 4 x USB 3.0
- **Displays** 1 x HDMI, 1 x DP
HDMI 1.4 (4096x2304@24Hz)
HDMI 1.4 (1920x1080@60Hz)
DP 1.2 (4096x2304@60Hz)
DP 1.2 (1920x1080@60Hz)
- **Audio** Line-out
- **Power Connector** 1 x 2 Pins, Terminal Block

Environment

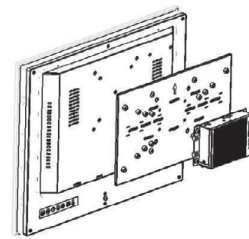
- **Operating Temperature** -20 ~ 60 °C (-4 ~ 140 °F) @ 5 ~ 85% RH with 0.7 m/s airflow
- **Storage Temperature** -40 ~ 85 °C (-40 ~ 185 °F)
- **Relative Humidity** 10 ~ 95% RH @ 40 °C, non-condensing
- **Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- **Vibration Protection** Operating, IEC 60068-2-64, 3 Grms, random, 5 ~ 500 Hz, 1hr/axis
- **Ingress Protection** IP40

Installation Scenario

DIN-rail Mount Illustration



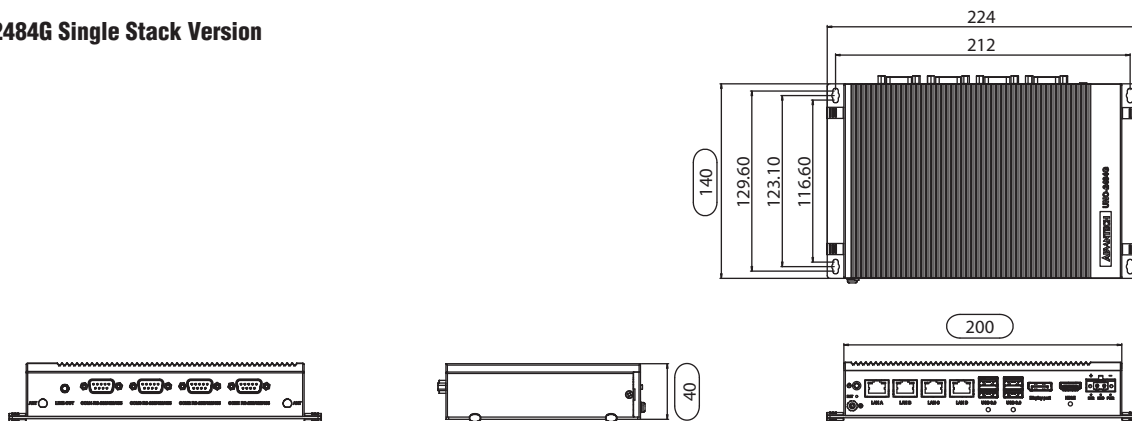
VESA Mount Illustration



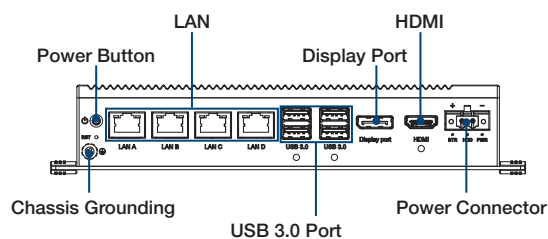
Dimensions

Unit: mm

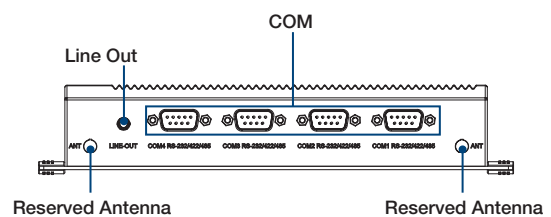
UNO-2484G Single Stack Version



Front I/O View



Rear I/O View



Ordering Information

- ESRP-AWS-U2484 Amazon IoT Edge Starter Kit with UNO-2484

Optional Accessories

- 96PSA-A150W24T2-3 Power Adapter 150W
- 96PSA-A120W24T2-3 Power Adapter 120W
- 1702002600 Power Cable US Plug 1.8 M (Industrial Grade)
- UNO-REPWR-AE Remote power & reset kit
- 1702002605 Power Cable EU Plug 1.8 M (Industrial Grade)
- 1702031801 Power Cable UK Plug 1.8 M (Industrial Grade)
- 1700000596 Power Cable China/Australia Plug 1.8 M (Industrial Grade)
- UNO-2000G-VMKAE UNO-2000 VESA Mount Kit
- UNO-2000G-DMKAE UNO-2484 DIN RAIL Kit
- UNO-2000-LKAE Cable lockable kit 10 units/per pack