ESRP-CSS-U2484

Azure IoT Edge Starter Kit with UNO-2484

NEW

Microsoft Azure

Azure Certified Device

WISE-EdgeLink

Features

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

Introduction

The ESRP-CSS-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 Azure 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.

Secure cloud communication and edge intelligence

Includes Azure IoT Edge Security Daemon.

Specifications

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

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)

System Hardware

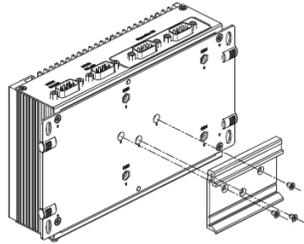|	
BIOS	AMI EFI 64 Mbit
Watchdog Timer	Programmable timer with 255 intervals from 1 to 255 sec
Processor	Intel® Core™ i5-7300U, 2.6GHz
Memory	Built-in 8GB DDR4 2133 MHz
Ethernet	LAN A: Intel® i219-IT GbE, 802.1Qav, IEEE 1588/802.1AS, 802 LAN B-D: Realtek i8119i GbE, IEEE 802.1Qav, IEEE 1588/802.1AS, 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

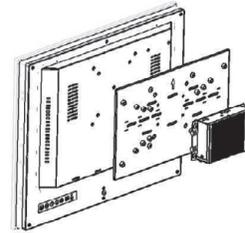|	
Serial Ports	4 x RS 232/422/485
LAN Ports	4 x RJ-45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T fast ethernet
USB Ports	4 x USB 3.0
Displays	1 x HDMI, 1 x DP HDMI 1.4 (4096x2304@24Hz) HDMI 1.4 (1920x1080@60Hz) DP 1.2 (4096x2304@60Hz) DP 1.2 (1920x1080@60Hz)
Audio	Line-out
Power Connector	1 x 2 Pins,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

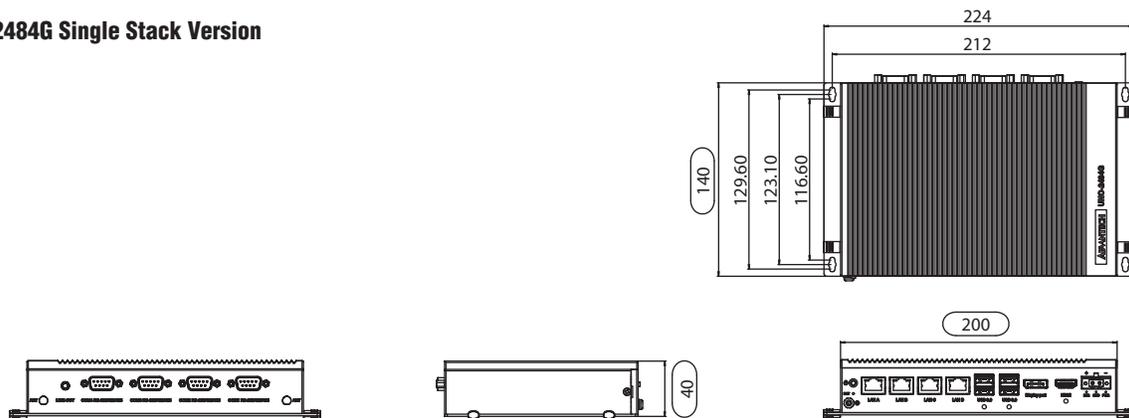## Installation Scenario
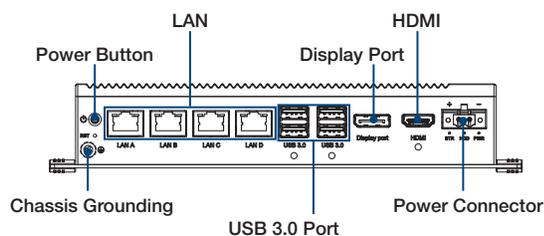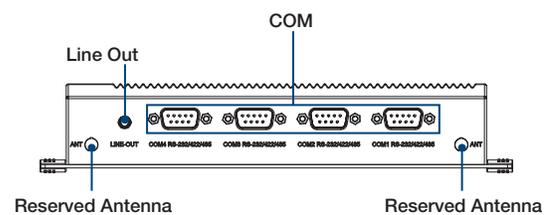
DIN-rail Mount Illustration

VESA Mount Illustration

Dimensions

Unit: mm

UNO-2484G Single Stack Version

224

212

140

129.60

123.10

116.60

200

40

Front I/O View

Power Button

LAN

HDMI

Display Port

Chassis Grounding

USB 3.0 Port

Power Connector

LAN A LAN B LAN C LAN D USB 3.0 USB 3.0 Display port HDMI

Rear I/O Veiw

Line Out

COM

Reserved Antenna

Reserved Antenna

ANT LINE-OUT COM4 RS-232/422/485 COM3 RS-232/422/485 COM2 RS-232/422/485 COM1 RS-232/422/485 ANT

Ordering Information

- **ESRP-CSS-U2484**   Azure 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-2484G DIN RAIL Kit
- **UNO-2000-LKAE**   Cable lockable kit 10 units/per pack