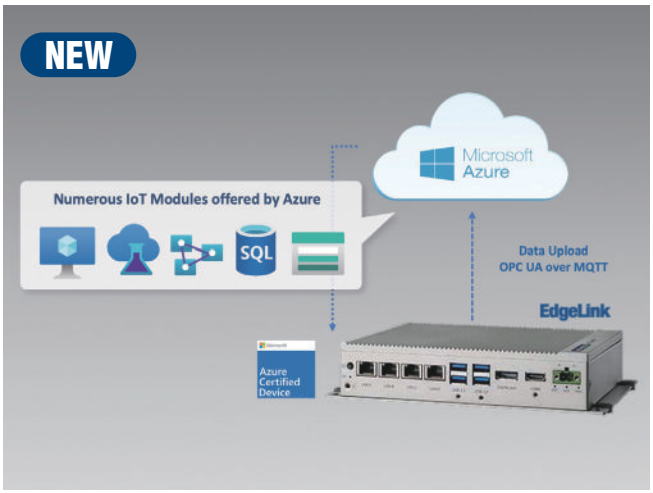
ESRP-CSS-U2484V2

Azure IoT Edge Starter Kit with UNO-2484G V2



Features

- Intel® Core™ 11th i5 with 8GB DDR4, 256GB NVME
- Azure IoT Edge certified
- Extends cloud intelligence and analytics to edge devices
- Boosts productivity and response times with data insights
- Support multiple southbound and northbound interface
- Offers secure cloud communication and edge intelligence

Introduction

ESRP-CSS-U2484V2 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 Azure to the edge to support diverse applications. All data are collected and delivered to the cloud by 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. User guide is also provided for users to initialize Azure IoT Edge on UNO-2484G V2.

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.

Support multiple southbound and northbound interface

EdgeLink is designed to connect to 200+ PLCs for data acquisition with zero coding. It also supports multiple protocols for unifying data sources, enhances data processing, and publishes data to cloud.

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)	1.4kg (3.09lbs)
Power Requirement	10 - 36 V_{DC}
Power Consumption	30.2W (Typical), 85W (Max)
Operating system	Ubuntu 20.04 Desktop
Software services	Edgelink Container version 2.8.3 Advantech EdgeManager 1.0.2 Advantech Auth-Server 1.8.1 Advantech iotedgecli 1.0.1 moby-engine 20.10.11+azure-3 Microsoft aziot-edge 1.2.10-1 (2022-05-27) Microsoft aziot-identity-service 1.2.6-1 (2022-05-27) nodejs 10.19.0

System Hardware

BIOS	AMI 256 Mbit SPI
Watchdog Timer	Programmable 255 levels timer interval, from 1 to 255 sec
Hardware Security	TPM2.0 2
Processor	11th Gen Intel Core Core™ i5-1145G7E quad-core 1.5GHz
Memory	Built-in 8GB DDR4 3200 MHz, supports up to 64GB (2 slots)
Graphics Engine	Intel® Iris® Xe Graphics
Ethernet	LAN A: Intel i219-LM 1Gb/s, IEEE 802.3, 802.1as/1588 LAN B-D: Intel® i226-LM 2.5Gb/s, IEEE 802.3, 802.1as/1588
LED Indicators	LEDs for Power, HDD, LAN (Active status), RTC Battery low
Stoarge	256GB NVME
Expansion Option	1 x M.2 B key slot (USB Signal for 3042/3052 LTE/5G/LTE module, SATA signal for storage) 1 x 2.5" SSD SATA drive bay (support SSD/HDD height up to 9.5mm) *Support RAID0/RAID1 with 2.5" SSD and M.2 B key 2242 SSD. 1 x M.2 M key (PCIex4) supports 2280 NVME SSD 2 x mPCIe slot (PCIe, USB2.0 signal)

I/O Interfaces

Serial Ports	4 x RS 232/422/485, 50-115.2 kbps speed
LAN Ports	1 x RJ45 , 10/100/1000 Mbps 3 x RJ45 , 10/100/1000/2500 Mbps
USB Ports	3 x USB 3.2 Gen2, 1 x USB2.0
Displays	1 x HDMI 1.4 (3840x2160@30Hz) 1 x DP 1.4a (4096x2304@60Hz)
USB Type-C	1 x USB3.2 Gen2, support DP1.4a Alt. mode
Power Connector	1 x 2 pins, terminal block

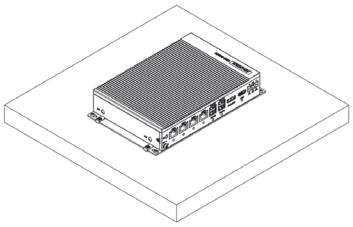
All product specifications are subject to change without notice.

Environment

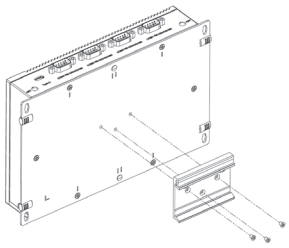
- **Operating Temperature** -20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7 m/s airflow
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Relative Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- **Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- **Vibration Protection** Operating,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

Installation Scenario

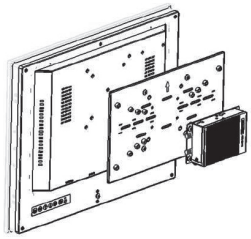
Stand/Wall Mount



DIN-rail Mount (Optional)

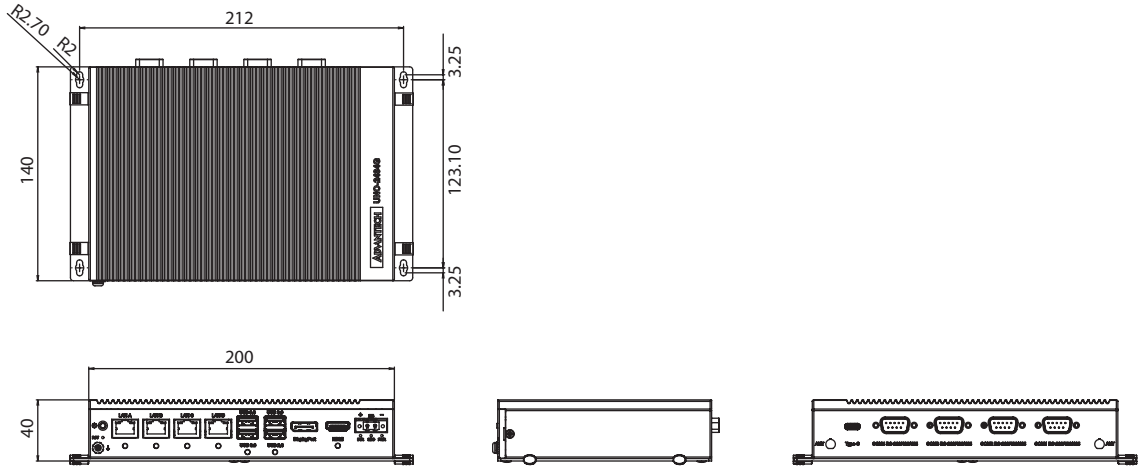


VESA Mount (Optional)

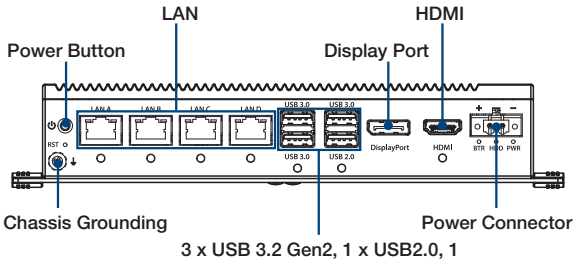


Dimensions

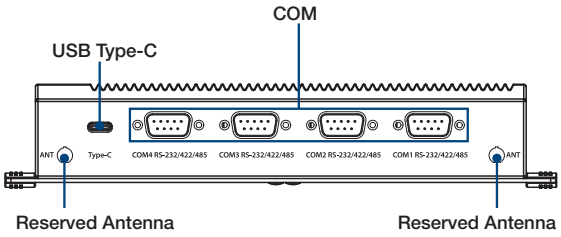
Unit: mm



Front I/O View



Rear I/O Veiw



Ordering Information

- **ESRP-CSS-U2484V2** Azure IoT Edge Starter Kit with UNO-2484G V2

Optional Accessories

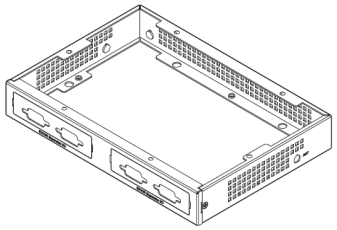
- **96PSA-A150W24T2-4** Power Adapter 150W
- **96PSA-A120W24T2-4** Power Adapter 120W
- **1702002600** Power Cable US Plug 1.8 M (Industrial Grade)
- **1702002605** Power Cable EU Plug 1.8 M (Industrial Grade)
- **1702031801** Power Cable UK Plug 1.8 M (Industrial Grade)
- **1700000596** Power Cable China/Australia Plug 1.8 M (Industrial Grade)
- **1700033574-01** F cable 2x10P-2.0x2/IDE#2 16P-2.54 17CM
- **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
- **UNO-REPWR-AE** Remote power & reset kit

Please note: If some optional modules are offered with the system, additional system certificates may be required in certain regions/countries.
Please contact Advantech for certificate compliance.

Stackable Extension Kits

UNO-2484G-EKCE

Second stack module for supporting 2*iDoor on UNO-2484G V2



Specifications

General	
Expansion	2 x iDoor, 4 x reserved antenna hole
Dimensions	200 x 140 x 30 mm
Weight	400g

Ordering Information

Ordering P/N	Description
UNO-2484G-EKCE	UNO-2484G V2 2nd stack for 2 iDoor