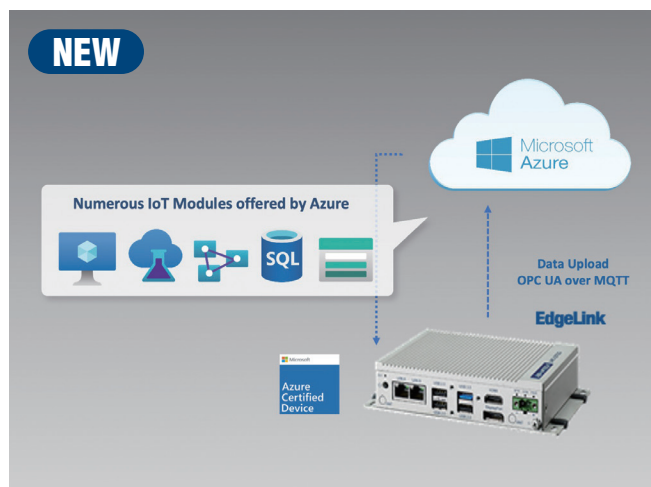


# ESRP-CSS-U2372V2

## Azure IoT Edge Starter Kit with UNO-2372G V2



### Features

- Intel® Celeron® J6412 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-U2372V2 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-2372G 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)** 150 x 105 x 35 (5.8" x 4.2" x 1.4")
- **Enclosure** Aluminum housing
- **Mount Options** Stand, wall, VESA (optional), DIN rail (optional)
- **Weight (Net)** 0.8 kg (1.8 lb)
- **Power Requirement** 10 ~ 36 V<sub>DC</sub>
- **Power Consumption** 19W (Typical), 54W (Max)
- **Operating system** Ubuntu 20.04
- **Software services** Edgeline Container version 2.8.3  
Advantech EdgeManager 1.0.2  
Advantech Auth-Server 1.8.1  
Advantech iotedgedcli 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

#### Hardware

- **BIOS** AMI UEFI (64 Mbit)
- **Watchdog Timer** Programmable timer with 255 intervals (1 ~ 255 sec)
- **Hardware Security** TPM2.0
- **Processor** Intel® Celeron® J6412 quad-core, 2.0 GHz (max. turbo 2.6 GHz)
- **Memory** Built-in 8 GB DDR4, 3200MHz, supports up to 32 GB (single socket)
- **Graphics Engine** Intel® UHD Graphics
- **Ethernet** Realtek® Ethernet Controller RTL8119I-CG
- **LED Indicators** Power, RTC battery, LAN (active, status), and HDD
- **Storage** 256GB NVME
- **Expansion Option** 1 x mPCIe (PCIe/USB2.0 signal),  
1 x M.2 B key (USB3.0 signal) for 3042/3052 cellular module  
1 x M.2 M key (PCIe2/SATA signal) for 2242 NVME/SSD  
1 x 2.5" SSD/HDD drive bay(up to 9.5 mm height)

#### I/O

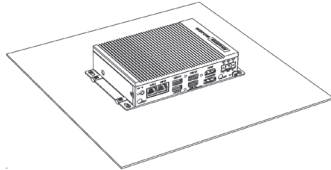
- **Serial Ports** 4 x RS-232/422/485, DB9, 50 ~ 115.2kbps
- **LAN** 2 x RJ45, 10/100/1000 Mbps IEEE 802.3u  
1000BASE-T Fast Ethernet
- **USB** 3 x USB 3.2 GEN2, 1 x USB2.0
- **Displays** 1 x HDMI 1.4 (3840 x 2160 @30 Hz)  
1 x DP 1.4 (4096 x 2160 @60 Hz)
- **Power Connector** 1 x 2-pin terminal block
- **Audio** Line-out

#### Environment

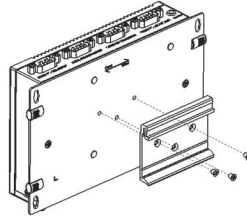
- **Operating Temperature** -20 ~ 60 °C/-4 ~ 140 °F @ 5 ~ 85% RH with 0.7m/s airflow
- **Storage Temperature** -40 ~ 85 °C/-40 ~ 185 °F
- **Relative Humidity** 10 ~ 95% RH @ 40 °C/104 °F, non-condensing
- **Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11ms
- **Vibration Protection** Operating, IEC 60068-2-64, 2Grms, random, 5 ~ 500Hz, 1hr/axis (SSD)
- **Ingress Protection** IP40 (Base unit)

## Installation Scenario

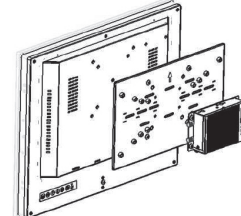
Stand/Wall Mount



DIN-Rail Mount (Optional)

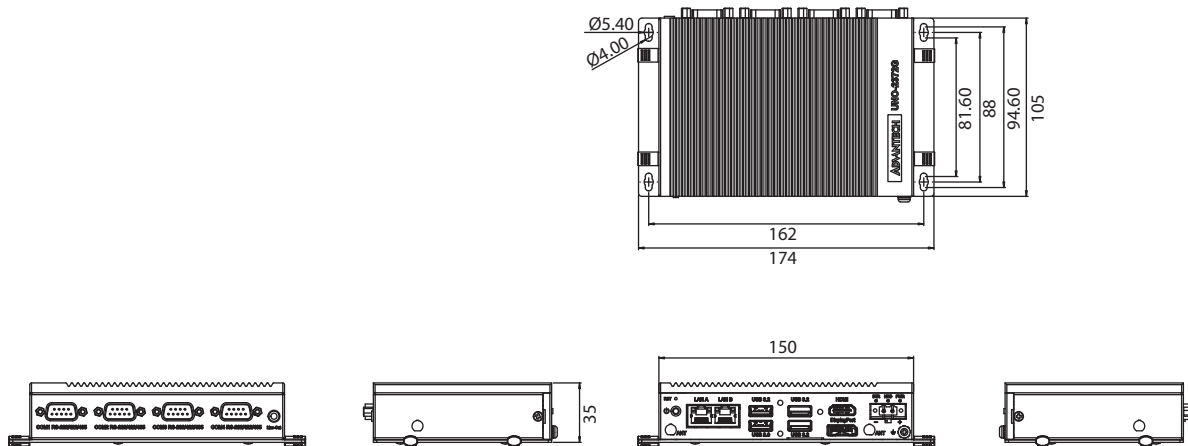


VESA Mount (Optional)



## Dimensions

Unit: mm



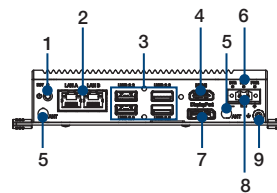
## Ordering Information

- ESRP-CSS-U2372V2 Azure IoT Edge Starter Kit with UNO-2372G V2

## Optional Accessories

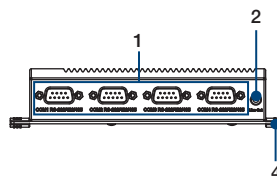
- 96PSA-A60W24T2-3** A/D 100 ~ 240V 60W 24V C14 cord end terminal power adapter
- 1702002600** Power cable, US plug, 1.8 m (industrial grade)
- 1702002605** Power cable, EU plug, 1.8 m (industrial grade)
- 1702031801** Power cable, UK plug, 1.8 m (industrial grade)
- 1700000596** Power cable, China/Australia plug, 1.8 m (industrial grade)
- UNO-2000G-DMKAE** UNO-2000 DIN-rail kit
- UNO-2000G-VMKAE** UNO-2000 VESA mount kit
- UNO-2000-LKAE** Cable locking kit, 10 units per pack
- UNO-REPWR-AE** Remote power and reset control kit for UNO (\* Need to use with UNO-2372G-EKCE)

## Front I/O



- Power button
- RJ45 LAN
- 3 x USB 3.2 GEN1, 1 x USB2.0
- HDMI 1.4
- Reserved antenna
- Power, Battery, HDD LEDs
- DisplayPort 1.4
- Power connector
- Chassis grounding

## Rear I/O



- RS-232/422/485
- Line-out
- iDoor expansion slot
- Rubber stopper

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.