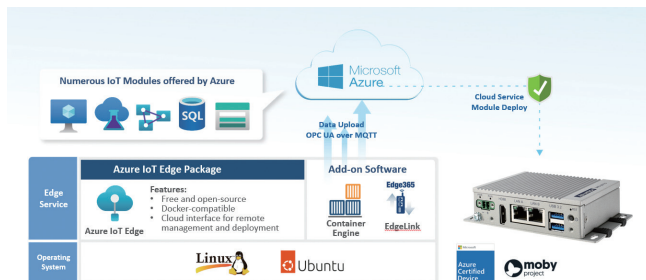


ESRP-CSS-U2271V2

Pocket-Size Edge IoT Gateway with Intel® Celeron® N6210 with Azure IoT Edge and EdgeLink Container Version



Features

- Pocket-size, robust, fanless and cable-free system with high stability that certified with Azure IoT edge
- Extends cloud intelligence and analytics to edge devices
- Boosts productivity and response times with data insights
- EdgeLink supports more than 200 PLC devices for data acquisition and transmission
- Offers secure cloud communication and edge intelligence

Introduction

ESRP-AWS-U2271V2 pocket-size edge IoT gateway 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 Container 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.

Specifications

General

- **Certification** CE, FCC, UL, CCC, BSMI
- **Dimensions (W x D x H)** 100 x 70 x 30 mm/3.9 x 2.8 x 1.2 in
- **Form Factor** Pocket sized
- **Enclosure** Aluminum
- **Mount Options** Stand, wall, VESA (optional), DIN rail (optional)
- **Weight (Net)** 0.5 kg/1.1 lb
- **Power Requirement** 10 ~ 30V_{DC}
- **Power Consumption** 12W (typical), 30W (max.)
- **Operating System** Ubuntu 20.04
- **Software Application** Container Edgeline v2.8.3
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

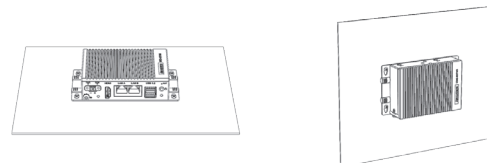
- **BIOS** AMI UEFI x64
- **Watchdog Timer** Programmable interval timer, from 1 to 255 seconds
- **Processor** Intel® Celeron® N6210 dual-core (1.2 GHz)
- **Memory** 4 GB DDR4 2666 MHz onboard
- **Graphics Engine** Intel® UHD Graphics
- **Ethernet** 2 x i210AT
- **LED Indicators** Power, Run (programmable), LAN (active, status)
- **Storage** 32 GB eMMC (up to 256 GB upon request)
1 x mSATA slot shared with mPCIe slot
- **Expansion** 1 x Full-size mPCIe slot (SATA/PCIe/USB2.0 signal)
- **Hardware Security** TPM2.0 (TPM2.0 Library Reversion 1.38)

I/O Interfaces

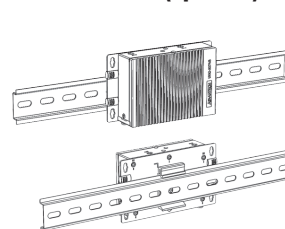
- **LAN Ports** 2 x RJ45, 10/100/1000 Mbps IEEE 802.3u
1000BASE-T Fast Ethernet
- **USB Ports** 2 x USB 3.2 Gen 1
- **Display Output** 1 x HDMI (1920 x 1080 @60Hz)
- **Power Connector** 1 x 2-pin terminal block

Installation Scenarios

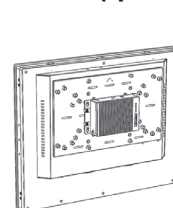
Stand/Wall Mount



DIN-Rail Mount (optional)

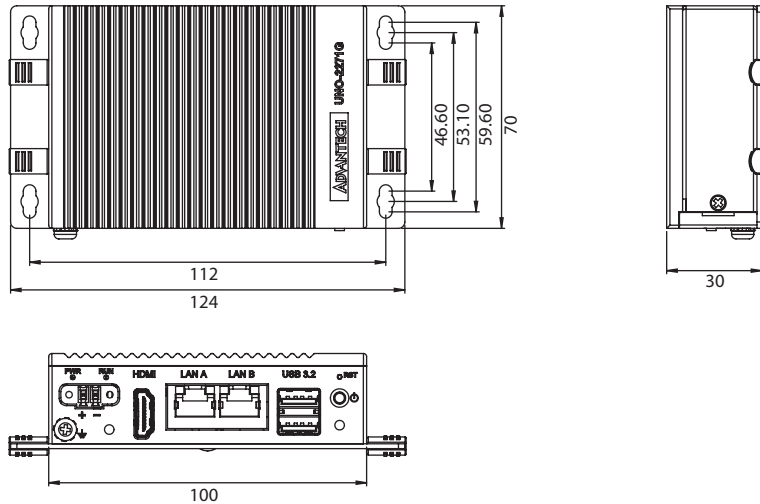


VESA Mount (optional)

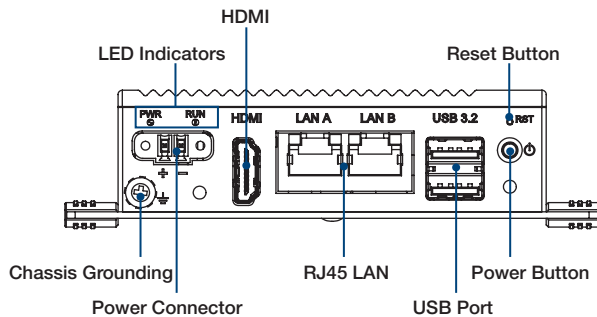


Dimensions

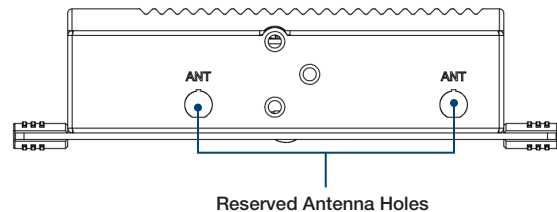
Unit: mm



Front I/O



Rear I/O



Environment

- Operating Temperature** -20 ~ 60 °C (-4 ~ 140 °F) with 0.7m/s airflow
- Storage Temperature** -40 ~ 85 °C / -40 ~ 185 °F
- Relative Humidity** Operating, 95% RH @ 40° C, Non-Condensing
Non-Operating, 95% RH @ 60° C, Non-Condensing
- Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- Vibration Protection** Operating, IEC 60068-2-64, 2 Grms, random, 5 ~ 500 Hz, 1hr/axis (mSATA)
- Ingress Protection** IP30

Ordering Information

- ESRP-CSS-U2271V2** Azure IoT Edge Starter Kit, Intel® Celeron® N6210 dual-core CPU with 4 GB RAM, 2 x GbE, 2 x USB, 1 x mPCIe, 1 x HDMI, 32 GB eMMC

Optional Accessories

Adapters and Power Cables

- PWR-247-DE** 60W AC to DC UNO series power adapter
- 1702002600** Power cable (US) 1.8 M
- 1702002605** Power cable (EU) 1.8 M
- 1702031801** Power cable (UK) 1.8 M
- 1700000596** Power cable (China/Australia) 1.8 M

Mount Kits

- UNO-2271G-DMKAE** UNO-2271G DIN-rail mount kit
- UNO-2000G-VMKAE** UNO-2000 VESA mount kit