

# ESRP-AWS-U2271V2

## Pocket-Size Edge IoT Gateway with Intel® Celeron® N6210 with AWS IoT Greengrass and EdgeLink Container Version



### Features

- Pocket-size, robust, fanless and cable-free system with high stability that certified with AWS IoT Greengrass
- 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 AWS 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<sub>DC</sub>
- **Power Consumption** 12W (typical), 30W (max.)
- **Operating System** Ubuntu 20.04
- **Software Application** Container Edgelinek v2.8.3  
Docker version 20.10.17, build 100c701  
docker-compose version 1.29.2, build 5becea4c  
Java 1.8.0\_342  
Python 3.8.10  
AWS IoT SiteWise Component v1.0.0 (optional)  
aws-cli/2.7.29 (optional)  
Edgemanager v1.0.1 (optional)

#### System Hardware

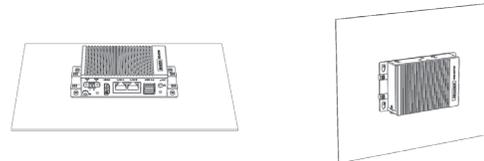
- **BIOS** AMI UEFI x64
- **Watchdog Timer** Programmable interval timer, from 1 to 255 seconds
- **Processor** Intel® Celeron® N6210 dual-core (1.2 GHz)
- **Memory** 4 GB DDR4 2666 MHz onboard
- **Graphics Engine** Intel® UHD Graphics
- **Ethernet** 2 x i210AT
- **LED Indicators** Power, Run (programmable), 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

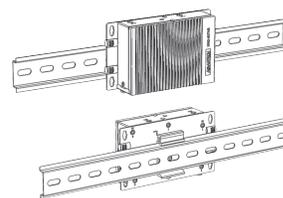
- **LAN Ports** 2 x RJ45, 10/100/1000 Mbps IEEE 802.3u  
1000BASE-T Fast Ethernet
- **USB Ports** 2 x USB 3.2 Gen 1
- **Display Output** 1 x HDMI (1920 x 1080 @60Hz)
- **Power Connector** 1 x 2-pin terminal block

### Installation Scenarios

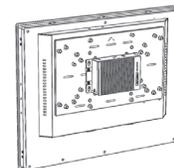
#### Stand/Wall Mount



#### DIN-Rail Mount (optional)

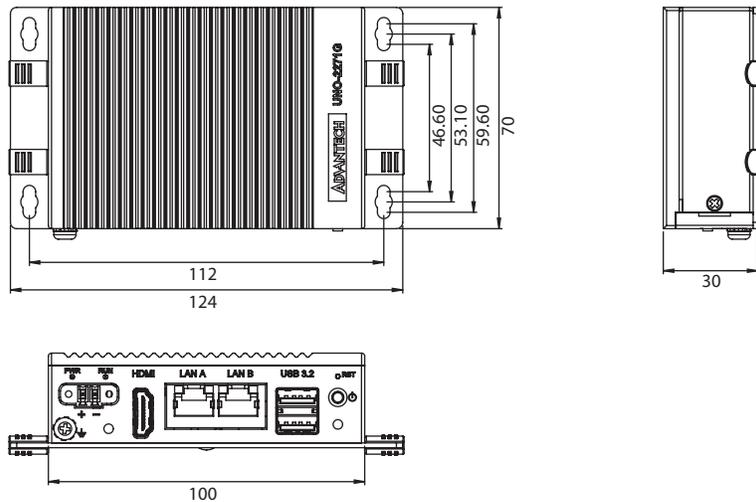


#### VESA Mount (optional)

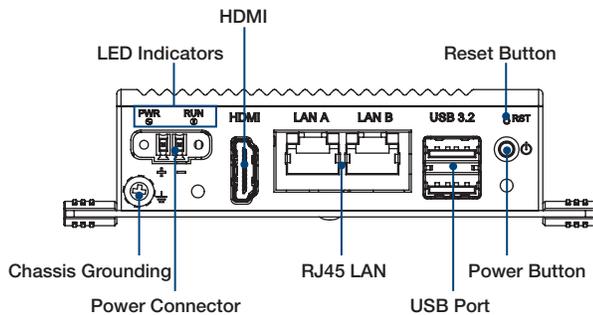


## Dimensions

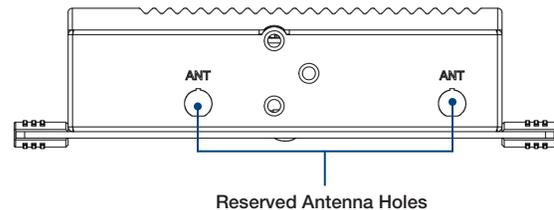
Unit: mm



## 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-AWS-U2271V2 AWS IoT Greengrass 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