# UNO-2271G V2

## Pocket-Size Edge IoT Gateway with Intel® Celeron® N6210/ Pentium® N6415




## Features

- Intel® Celeron® Dual core N6210/ Pentium® Quad core N6415 processor with 4GB/8GB DDR4 onboard memory
- Pocket-size, robust, fanless and cable-free system with high stability
- Optional second stack for increasing functionality including POE, COM, wireless connectivity or iDoor expansion
- Support Win11, Ubuntu Classic and Ubuntu Core 20
- Microsoft Azure IoT Edge and Amazon AWS IoT Greengrass certified

## Introduction

Advantech's UNO-2000 series of embedded automation computers are highly rugged, fanless systems. The modular design offers strong computing performance and flexible scalability with various I/O ports for IoT Connectivity. The UNO-2271G V2 are designed as IoT edge gateways. Their pocket size design features versatile I/O ports and expansion options to support wire/wireless communication, and AI accelerators for IoT edge data analysis and processing. UNO-2271G V2 IoT edge gateways enable various industrial applications across multiple industries.

## Specifications

### General

- **Certification** CE, FCC, UL, CCC, BSMI
- **Dimensions (W x D x H)** 100 x 70 x 40 mm/3.9 x 2.8 x 1.57 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 ~ 30$V_{DC}$
- **Power Consumption** 12W (typical), 30W (max.)
- **Operating System** Windows10 LTSC, Windows 11, Ubuntu 20.04, Ubuntu Core 20
- **Software Compatibility** WISE-Edge365, Azure IoT Edge, AWS IoT Greengrass

### 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)/ Pentium® N6415 quad-core (1.2 GHz)
- **Memory** 4 GB/8 GB DDR4 3200 MHz onboard
- **Graphics Engine** Intel® UHD Graphics
- **Ethernet** 2 x i210AT
- **LED Indicators** Power, Run (programmable), LAN (active, status)
- **Storage** 32/64GB eMMC (up to 256 GB upon request)<br>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

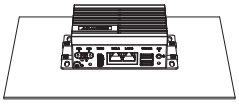
- **LAN Ports** 2 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T Fast Ethernet
- **USB Ports** 2 x USB 3.2 Gen 1
- **Display Output** 1 x HDMI (1920 x 1080 @60Hz)
- **Power Connector** 1 x 2-pin terminal block

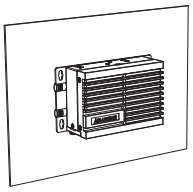
### Environment

- **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<br>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

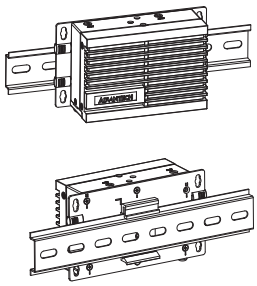
## Installation Scenarios

### Stand/Wall Mount

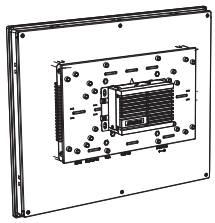




### DIN-Rail Mount (optional)



### VESA Mount (optional)





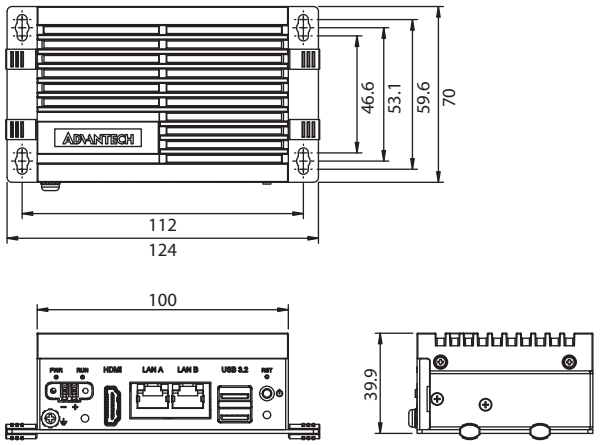
All product specifications are subject to change without notice.

Last updated: 15-Jun-2026

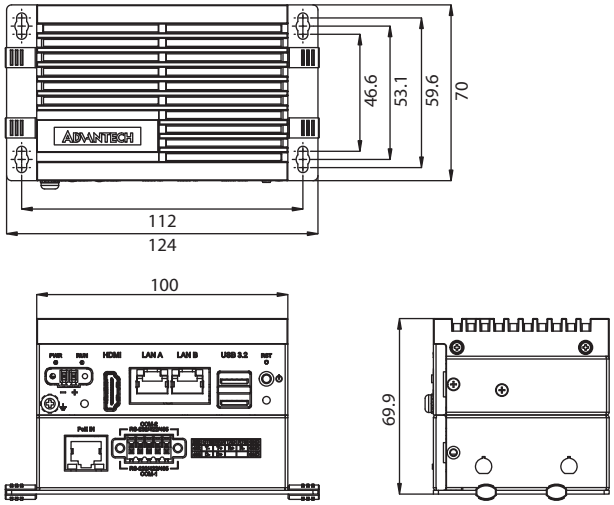
## Dimensions

Unit: mm

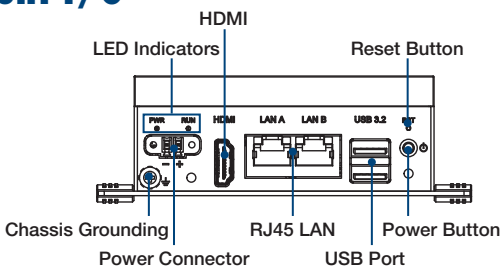
**Single stack**



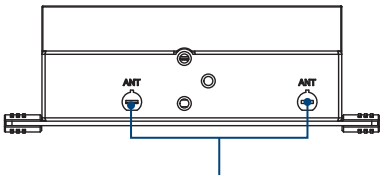

**Double stack**




## Front I/O




## Rear I/O




## Ordering Information

| Part Number | CPU | Cores | RAM | Storage | Remark |
|---|---|---|---|---|---|
| UNO-2271G-N221BE | Intel® Celeron® N6210 | 2 | 4GB | 32GB eMMC | |
| UNO-2271G-N221BU | Intel® Celeron® N6210 | 2 | 4GB | 32GB eMMC | US region |
| UNO-2271G-N231BE | Intel® Pentium® N6415 | 4 | 8GB | 64GB eMMC | |
| UNO-2271G-N231BU | Intel® Pentium® N6415 | 4 | 8GB | 64GB eMMC | US region |

## Embedded OS

- **20704WX9ES0000** WIN10 IoT Enterprise 2019 x64 LTSC v6.07 B005
- **20704WX1ES0001** WIN10 IoT Enterprise 2021 x64 LTSC v6.08 B009
- **20704U20CS0000** Ubuntu Core 20 - Intel IOTG version_20211213
- **20704U20DS0000** Ubuntu Desktop - Intel IOTG version_20211203
- **20704U20DS0001** AdvLinuxTu V3.0.4 for UNO series

## 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-VMKCE** UNO-2000 VESA mount kit

### Miscellaneous

- **UNO-2000-LKAE** Cable lock kit, 10 units per pack

### Wi-Fi Module (mPCIe) and Antenna

- **EWM-W193H01E** Realtek mPCIe module with Wi-Fi 802.11 a/b/g/n/ac, 2T2R, and BT4.2
- **9656EWMG00E** Half to full-size mPCIe bracket
- **1750008799-01** Cable Ant.SMA/F-R-BH MFH4/113 BLK L170
- **1750008717-01** Antenna, 10.9 cm, 50 Ohm

### LTE Module (mPCIe) and Antenna

- **968AD00589** Quectel EG25G LTE Cat. 4 mPCIe module with SIM slot (CE RED certified)
- **1750008303-01** Antenna AN0727-64SP6BSM
- **1750006264** Antenna SMA(F)/MHF, 15 cm

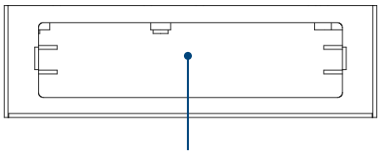
# Stackable Extension Kits

## UNO-2271G-EKCE

**Second stack module for iDoor technology**



### Front I/O




### Specifications

| General | |
|---|---|
| I/O | 1 x iDoor slot (chassis only) |
| Dimensions | 100 x 70 x 30 mm/ 3.93 x 2.75 x 1.18 in |
| Weight | 100 g/0.22 lb |
| **Environment** | |
| Operating Temperature | Dependent on iDoor module installed |

### Ordering Information

| Part Number | Description |
|---|---|
| UNO-2271G-EKCE | UNO-2271G V2 2nd stack extension kit for iDoor |

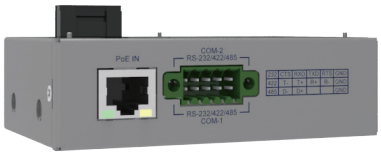
### Optional iDoor Modules*

| Part Number | Description |
|---|---|
| PCM-24D2R2-BE | 2-port isolated RS-232 mPCIe, DB9 |
| PCM-24D2R4-BE | 2-port isolated RS-422/485 mPCIe, DB9 |
| PCM-24D4R2-BE | 4-port non-isolated RS-232 mPCIe, DB37 |
| PCM-24D4R4-BE | 4-port non-isolated RS-422/485 mPCIe, DB37 |
| PCM-2300MR-BE | MR4A16B, 2 MB MRAM, mPCIe |
| PCM-26D2CA-BE | 2-port isolated CAN bus mPCIe, CANopen, DB9 |
| PCM-27D24DI-AE | 24-channel isolated digital I/O with counter mPCIe, DB37 |
| PCM-24R2GL-AE | 2-port Gigabit Ethernet, mPCIe, RJ45 |
| PCM-23U1DG-CE | USB slot with lock for USB dongle |

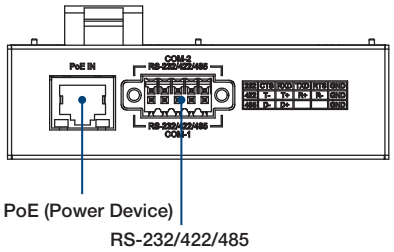
*Contact Advantech for more compatible iDoor solutions.

## UNO-2271G-RP1EA

**Second stack module with 2 x COM, 1 x PoE (PD), 1 x M.2 (B key)**



### Front I/O




### Specifications

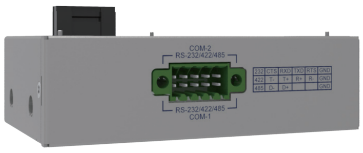
| General | |
|---|---|
| I/O | 2 x COM (RS-232/422/485) terminal block<br>1 x PoE+ (802.3at) (power device)<br>Note: Because PoE can only provide 25.5W max. power, USB ports should only be used to connect USB 2.0 devices. |
| Expansion | 1 x M.2 (B key) (SATA/USB 3.0 signals for LTE) |
| SIM Slot | 1 x nano SIM slot |
| Dimensions | 100 x 70 x 30 mm/ 3.93 x 2.75 x 1.18 in |
| Weight | 120 g/0.26 lb |
| **Environment** | |
| Operating Temperature | -20 ~ 60 °C/-4 ~ 140 °F |

### Ordering Information

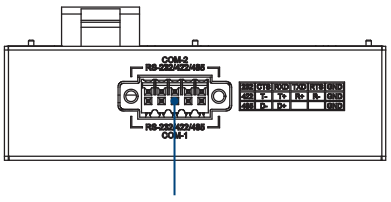
| Part Number | Description |
|---|---|
| UNO-2271G-RP1EA | UNO-2271G V2 second stack module with 2 x COM, 1 x PoE, 1 x M.2 (B key) |

# UNO-2271G-RS2EA

## Second stack module with 2 x COM, 1 x M.2 (B key), 1 x M.2 (E key)



## Front I/O




## Specifications

| General | |
|---|---|
| I/O | 2 x COM (RS-232/422/485) terminal block |
| Expansion | 1 x M.2 (B key) (SATA/USB 3.0 signals for LTE)<br>1 x M.2 (E key) (PCIe/USB 2.0 signals for Wi-Fi) |
| Network Connectivity | 1 x nano SIM slot |
| Dimensions | 100 x 70 x 30 mm/ 3.93 x 2.75 x 1.18 in |
| Weight | 120 g/0.26 lb |
| **Environment** | |
| Operating Temperature | -20 ~ 60 °C/-4 ~ 140 °F |

## Ordering Information

| Part Number | Description |
|---|---|
| UNO-2271G-RS2EA | UNO-2271G V2 second stack module with 2 x COM,<br>2 x M.2 (B+E key) |

## Optional Accessories

### Wi-Fi Connectivity Kit (M.2 A-E key)

| Part Number | Description |
|---|---|
| AIW-166K3 | Intel Wi-Fi 6+BT 5.3 Module 2.4/5/6GHz M.2 2230 noVpro |
| 1750008799-01 | SMA cable, 170mm |
| 1751000342-01 | Antenna |
| EXM-CMPF1-M2E01E | mPCIE to E key converter card |

### LTE Module (mPCIE) and Antenna

| Part Number | Description |
|---|---|
| 968AD00589 | Quectel EG25-G LTE Cat. 4 mPCIe module (EMEA/APAC) |
| 1750006264 | SMA cable, 150 mm |
| 1750008303-01 | Antenna |

### AT&T/Verizon-Certified LTE Kit for North America

| Part Number | Description |
|---|---|
| C-PCM-24S24G-227-2 | LTE kit with MultiTech LTE Cat. 4 modem, M.2 (B key) 3042 adapter board, 2 x SMA cables and antennas |



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