

# UNO-2372G-J1

**Compact Modular Box Platform with Intel® Celeron® Processor, 2 x GbE, 4 x USB 3.0, 4 x COM, 2 x mPCIe, 1 x HDMI 1.4b, 1 x DP 1.2**

**NEW**



Single-stack

Double-stack



## Features

- Intel® Celeron® J3455E quad-core processor with 4G DDR3L memory
- Compact, robust, fanless and cable-free system with high stability
- 2 x GbE, 4 x USB 3.0, 4 x RS-232/422/485, 1 x HDMI 1.4b, 1 x DP 1.2
- Modular design with optional second stack for increased functionality
- Stand mount with rubber stopper
- Optional kit for DIN-rail and VESA mounting
- Optional Wi-Fi/Bluetooth/cellular connectivity
- Built-in TPM2.0 for hardware-based security

## Introduction

Advantech's UNO-2000 series of embedded automation computers are highly ruggedized, fanless systems. The modular design offers numerous performance and cost-saving advantages, including eliminating unnecessary features and expenses, accelerated production and delivery, rapid deployment and integration, reduced system downtime and maintenance costs, and support for future upgrades and expansion. The UNO-2372G features optimized I/O and can be equipped with an optional second expansion stack that supports Advantech's iDoor technology. With the integration of various iDoor modules, including industrial fieldbus, wireless communication, I/O, and peripheral modules, the system functionalities can be easily extended to provide purpose-built, future-proof solutions that satisfy specific application requirements.

## Specifications

### General

- **Certification** CE, FCC, UL, CCC, BSMI
- **Dimensions (W x D x H)** Single-stack model: 150 x 105 x 35 mm (5.8 x 4.2 x 1.4 in)  
Double-stack model: 150 x 105 x 65 mm (5.8 x 4.2 x 2.6 in)
- **Form Factor** Small
- **Enclosure** Aluminum housing
- **Mount Options** Stand, wall, VESA (optional), DIN rail (optional)
- **Weight (Net)** Single-stack model: 0.8 kg (1.8 lb)  
Double-stack model: 1.0 kg (2.2 lb)
- **Power Requirement** 10 ~ 36 V<sub>DC</sub>
- **Power Consumption** 18.36W (typical)
- **OS Support** Microsoft® Windows 10, Advantech Linux (Ubuntu 18.04)

### Hardware

- **BIOS** AMI UEFI (64 Mbit)
- **Watchdog Timer** Programmable timer with 255 intervals (1 ~ 255 sec)
- **Hardware Security** TPM2.0
- **Processor** Intel® Celeron® J3455E quad-core, 1.5 GHz (max. turbo 2.3 GHz)
- **Memory** Built-in 4 GB DDR3L, 1866 MHz (supports up to 8 GB)
- **Graphics Engine** Intel® HD Graphics 500
- **Ethernet** Intel® i210 GbE, 802.3Qav, 802.1AS, 802.3az
- **LED Indicators** Power, RTC battery, LAN (active, status), and HDD
- **Storage** 1 x mSATA shared with mPCIe socket  
1 x 2.5" SATA HDD drive bay (max. height 9.5 mm)
- **Expansion** 2 x Full-size mPCIe sockets

### I/O

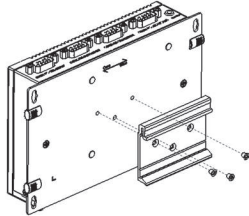
- **Serial Ports** 4 x RS-232/422/485, DB9, 50 ~ 115.2kbps
- **LAN** 2 x RJ45, 10/100/1000 Mbps IEEE 802.3u  
1000BASE-T Fast Ethernet
- **USB** 4 x USB 3.0
- **Displays** 1 x HDMI 1.4b (3840 x 2160 @30 Hz)  
1 x DP 1.2 (3840 x 2160 @60 Hz)
- **Power Connector** 1 x 2-pin terminal block
- **\* Audio** Line-out (optional)

### Environment

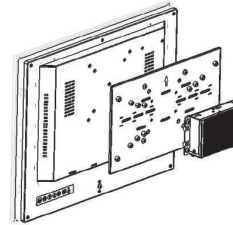
- **Operating Temperature** -20 ~ 60 °C/-4 ~ 140 °F @ 5 ~ 85% RH with 0.7m/s airflow
- **Storage Temperature** -40 ~ 85 °C/-40 ~ 185 °F
- **Relative Humidity** 10 ~ 95% RH @ 40 °C/104 °F, non-condensing
- **Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11ms
- **Vibration Protection** Operating, IEC 60068-2-64, 2Grms, random, 5 ~ 500Hz, 1hr/axis (mSATA)  
Operating, IEC 60068-2-64, 0.75Grms, random, 5 ~ 500Hz, 1hr/axis (HDD)
- **Ingress Protection** IP40

## Installation Scenario

DIN-Rail Mount



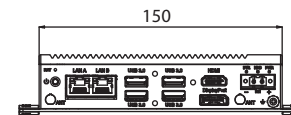
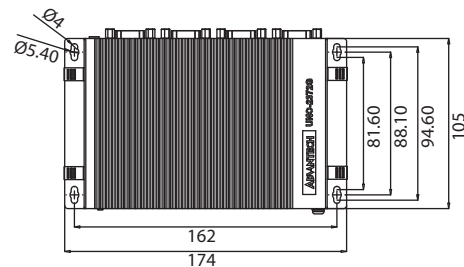
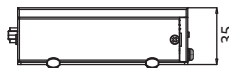
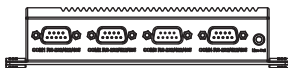
VESA Mount



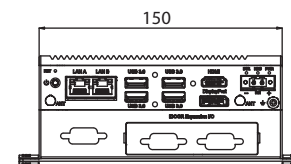
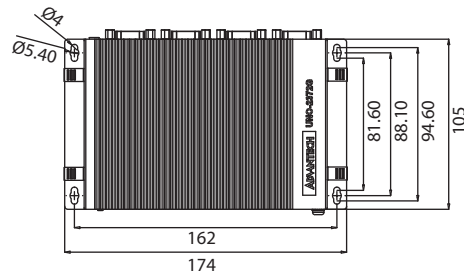
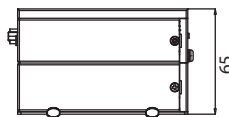
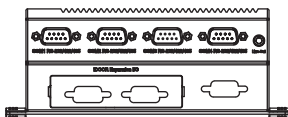
## Dimensions

Unit: mm

Single Stack



Double Stack

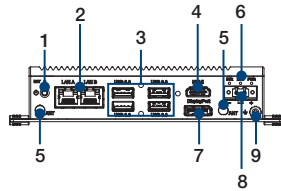


## Ordering Information

Ordering Part Number	CPU	iDoor	Audio	USB	COM	LAN	Manufacture site
Single Stack	UNO-2372G-J121AE	x	Line out	4	4	2	China
	UNO-2372G-J121AO		x				China
	UNO-2372G-J121AU		Line out				Taiwan
	UNO-2372G-J121AOU		x				Taiwan
Double Stack	UNO-2372G-J122AE	2	Line out				China

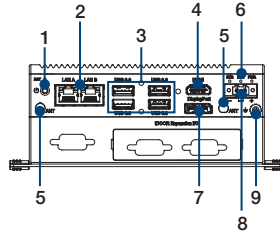
## Front I/O

### Single Stack



1. Power button
2. RJ45 LAN
3. USB 3.0
4. HDMI
5. Reserved antenna

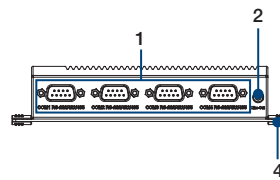
### Double Stack



6. Power, Battery, HDD LEDs
7. DisplayPort
8. Power connector
9. Chassis grounding

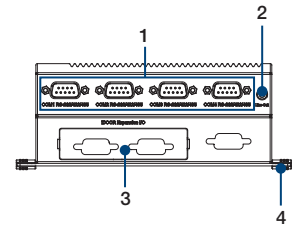
## Rear I/O

### Single Stack



1. RS-232/422/485
2. Line-out

### Double Stack



3. iDoor expansion slot
4. Rubber stopper

## iDoor Modules

UNO-2372G-J122AE supports iDoor modules (UNO-2372G-J121AE can also support iDoor modules with the addition of the UNO-2372G-EKBE second-stack extension kit).

- **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-26D2CA-AE** 2-port isolated CANBus 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-24S34G-ABE** LTE/HSPA+/GPRS, mPCIe, antennas for EMEA/APAC
- **PCM-24S34G-EBE** LTE/HSPA+/GPRS, mPCIe, antennas for US
- **C-PCM-24S24G-4AV-1** MultiTECH iDOOR, LTE Cat 4 (AT&T/Verizon), antenna

Contact Advantech for more compatible iDoor solutions

## 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
- **UNO-2372G-VEGA330** UNO-2372G 1st stack bottom plate for VEGA-330

## Embedded OS

- **20703WX9ES0030** Img W10LTSC V6.05 B028 UNO-2372G-J1xxAE Entry

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.

# Extended Module

## UNO-2372G-EKBE

2<sup>nd</sup> stack expansion module for support  
2 x iDOOR on UNO-2372G-xx21AE



### Specifications

General	
Ports	2 x iDOOR (Chassis only)
Dimensions	150 x 155 x 35 mm
Weight	200g
Environment	
Operating Temperature	-20 – 60 °C

### Ordering Information

P/N	Description
UNO-2372G-EKBE	UNO-2372G 2nd stack expansion module