UNO-2372G-J1

Intel Atom/Celeron Small-Size Modular Box Platform with 2 GbE.4 USB. 4 COM. 2 mPCIe. HDMI. DP



Features

- Intel Celeron[®] J3455 Quad-Core processors with 4G DDR3L memory
- Robust and cableless design with high stability
- 2 x GbE, 4 x USB, 4 x RS-232/422/485, 1 x HDMI, 1 x DP
- Modular design with flexibility to extend second stack for function enhancement
- Compact size with fanless design
- Rubber stopper design for stand mount and optional kit for DIN-rail mount. and VESA mount
- Optional 3G/GPS/GPRS/Wi-Fi communication

Introduction

Advantech's new generation UNO-2000 series of Embedded Automation Computers are a highly ruggedized fanless and modular design. The incredible modularity of UNO-2372G offers numerous performance and cost-saving advantages, including elimination of 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's modular design features optimized I/O and an optional second expansion stack that support Advantech's iDoor technology. This allows the platform functionalities to be easily extended and customized with the integration of various iDoor modules, including industrial Fieldbus, wireless communication, I/O and peripheral module, to provide purpose-built, future-proof solutions that satisfy specific application requirements.

Specifications

General

 Certification CE, FCC, UL, CCC, BSMI

1.0kg (2.2lbs)

AMI UEFI64 Mbit

Intel HD Graphics

9.5mm height HDD)

2 x Full size mPCle slots

sec

HDD

30W (Typical), 42W (Max)

10 - 36Vpc

Stand, Wall, VESA (Optional), DIN-rail (Optional)

Programmable 255 levels timer interval, from 1 to 255

Microsoft® Windows 10, Advantech Linux

TPM2.0 (UNO-2372G-J Series) Intel[®] Celeron[®] Quad Core J3455, 2.3 GHz Built-in 4GB DDR3L 1333MHz (Up to 8GB)

1 x mSATA shared with mPCIe slot

Intel® i210-IT GbE, 802.1Qav, 802.1AS, 802.3az LEDs for Power, RTC battery, LAN (Active, Status) and

1 x drive bay for SATA 2.5" HDD (Compatible with

Dimensions (W x D x H) 150 x 105 x 35mm (5.8" x 4.2" x 1.4")

Form Factor Small Size Aluminum Housing

- Enclosure
- Mountina
- Weight (Net)
- Power Requirement **Power Consumption**
- **OS Support**

System Hardware

- BIOS
- Watchdog Timer
- Hardware Security
- Processor
- Memory .
- **Graphics Engine** Ethernet
- LED Indicators
- Storage

Expansion

I/O Interfaces

Serial Ports LAN Ports	4 x RS232/422/485, DB9, 50 ~ 115.2kbps 2 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T Fast Ethernet
USB Ports	4 x USB 3.0
Displays	1 x HDMI 1.4 (3840x2160@30Hz)
	1 x DP 1.2 (3840x2160@60Hz)
Power Connector	1 x 2 Pins, Terminal Block

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) 10 ~ 95% RH @ 40°C, non-condensing **Relative Humidity**
- Shock Protection
- 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) IP40

Operating, IEC 60068-2-27, 50G, half sine, 11ms

Ingress Protection

Installation Scenario

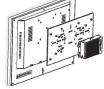
DIN-rail Mount Illustration



Ordering Information

- UNO-2372G-J121AE
- UN0-2372G-J122AE

VESA Mount Illustration

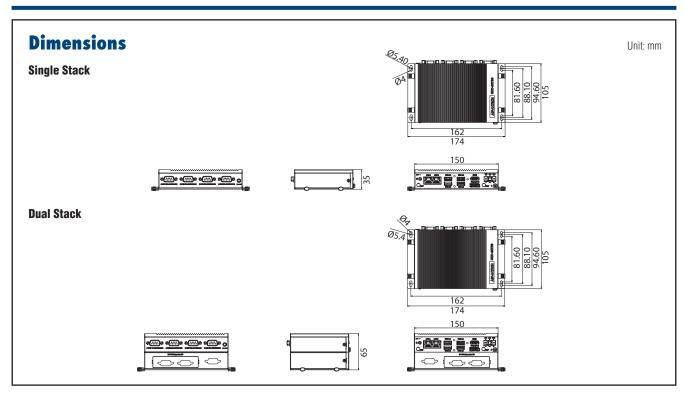


Intel Celeron J3455 2.3GHz, 4GB, 2 x GbE, 2 x mPCle, HDMI/DP (Single Stack)

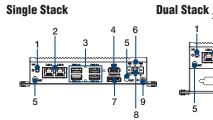
Intel Celeron J3455 2.3GHz, 4GB, 2 x GbE, 2 x mPCle, HDMI/DP (Dual Stack for iDOOR expansion)

UNO-2372G-J1

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Front I/O View



- 1. Power Button
- 2. RJ45 LAN
- 3. USB 3.0
- 4. HDMI
- 5. Reserved Antenna

iDoor Modules

iDoor modules are supported by UNO-2372G-J122AE. (UNO-2372G-J121AE can also support iDoor modules by adding 2nd stack extension kit UNO-2372G-EKBE)

2-Port Isolated RS-232 mPCle, DB9

4-Port Non-Isolated RS-232 mPCIe, DB37

4-Port Non-Isolated RS-422/485 mPCIe, DB37

1-Port Gigabit Ethernet, Intel® 82574L, mPCIe, RJ45

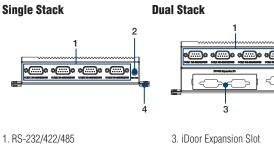
WiFi 802.11 ac/a/b/g/n 2T2R w/Bluetooth 4.1

- PCM-24D2R2-BE
- PCM-24D2R4-BE 2-Port Isolated RS-422/485 mPCle, DB9
- PCM-24D4R2-BE
- PCM-24D4R4-BE
- PCM-26D2CA-AE
- PCM-27D24DI-AE
- PCM-24R1TP-AE
- PCM-24S2WF-BE
- PCM-24S33G-AE
 - Wide-Temp 3.75G HSPA and GPS, 2-in-1, Full-size mPCle w/ Redundant SIM Card holder, 2-port SMA

Contact Advantech for more compatible iDoor solutions

DB37

Rear I/O View



Adapter

Optional Accessories

- 96PSA-A60W24T2
- 1702002600

2. Line Out

- 1702002605
- 1702031801
- 1700000596
- UNO-2000G-DMKAE
- UNO-2000G-VMKAE
- UNO-2000-LKAE

Embedded OS

UNO-2372G-JOxxAE

TBD

WIN10 2019 LTSC v6.04 B014 image

4. Rubber Stopper

A/D 100-240V 60W 24V C14 Cord End Terminal Power

Power Cable US Plug 1.8 M (Industrial Grade)

Power Cable EU Plug 1.8 M (Industrial Grade)

Power Cable UK Plug 1.8 M (Industrial Grade)

- Power Cable China/Australia Plug 1.8 M (Industrial Grade)
- UNO-2000 DIN Rail Kit
- UNO-2000 VESA Mount Kit Cable lockable kit 10 units/per pack

2-Port Isolated CANBus mPCle, CANopen, DB9 24-Channel Isolated Digital I/O w/ counter mPCle,

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6. BTR, HDD & PWR LED Lights

7. DisplayPort

8. Power Connector

9. Chassis Grounding