UNO-2372G-J1

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



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

Dimensions (W x D x H)

Form Factor

Enclosure

Mount Options Weight (Net)

Power Requirement

Power Consumption

OS Support Hardware

RINS

18.36W (typical)

CE, FCC, UL, CCC, BSMI

(5.8 x 4.2 x 1.4 in)

(5.8 x 4.2 x 2.6 in)

Aluminum housing

Śmall

Single-stack model: 150 x 105 x 35 mm

Double-stack model: 150 x 105 x 65 mm

Single-stack model: 0.8 kg (1.8 lb)

Double-stack model: 1.0 kg (2.2 lb)

Stand, wall, VESA (optional), DIN rail (optional)

Programmable timer with 255 intervals (1 ~ 255 sec)

Watchdog Timer Hardware Security Processor

2.3 GHz)

Memory **Graphics Engine**

Ethernet

LED Indicators

Storage

Expansion

Serial Ports LAN

USB

Displays

Power Connector

AMI UEFI (64 Mbit)

Intel® Celeron® J3455E quad-core, 1.5 GHz (max. turbo

Microsoft® Windows 10, Advantech Linux (Ubuntu 18.04)

Built-in 4 GB DDR3L, 1866 MHz (supports up to 8 GB)

Intel® HD Graphics 500

Intel® i210 GbE, 802.3Qav, 802.1AS, 802.3az

Power, RTC battery, LAN (active, status), and HDD

1 x mSATA shared with mPCle socket

1 x 2.5" SATA HDD drive bay (max. height 9.5 mm)

2 x Full-size mPCle sockets

4 x RS-232/422/485. DB9. 50 ~ 115.2kbps

2 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T

Fast Ethernet

4 x USB 3 0

1 x HDMI 1.4b (3840 x 2160 @30 Hz) 1 x DP 1.2 (3840 x 2160 @60 Hz)

1 x 2-pin terminal block

Environment

- Operating Temperature

Storage Temperature

Relative Humidity

Shock Protection

Vibration Protection

-20 ~ 60 °C/-4 ~ 140 °F @ 5 ~ 85% RH with 0.7m/s airflow

- 40 ~ 85 °C/-40 ~ 185 °F

10 ~ 95% RH @ 40 °C/104 °F, non-condensing Operating, IEC 60068-2-27, 50G, half sine, 11ms

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

Installation Scenario

DIN-Rail Mount

VESA Mount



Ordering Information

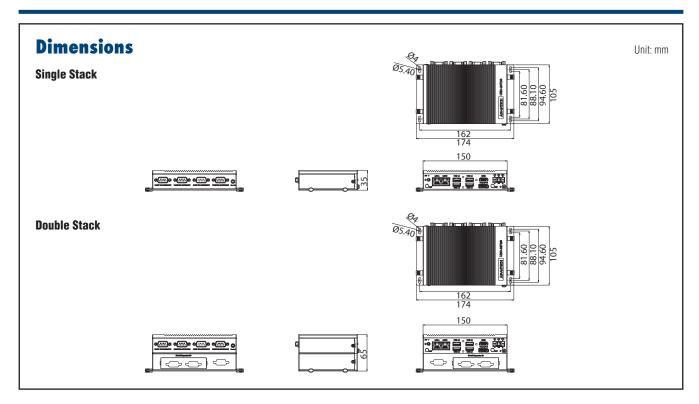
UNO-2372G-J121AE

Intel® Celeron® J3455E 1.5 GHz CPU, 4 GB DDR3L, 2 x GbE, 2 x mPCle, 1 x HDMI 1.4b/DP++ 1.2 (single

UNO-2372G-J122AE

Intel® Celeron® J3455E 1.5 GHz CPU, 4 GB DDR3L, 2 x GbE, 2 x mPCle, 1 x HDMI 1.4b/DP++ 1.2 (double stack for iDoor expansion)

All product specifications are subject to change without notice.

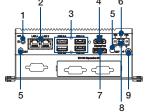


Front I/O

Single Stack

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

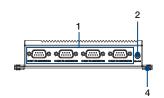
Double Stack



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

Rear I/O

Single Stack



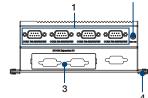
- 1. RS-232/422/485
- 1. RS-232/422/48 2. Line-out

1702002605

1702031801

1700000596

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
 PCM-24D2R4-BE
 PCM-24D2R4-BE
 2-port isolated RS-232 mPCle, DB9
 2-port isolated RS-422/485 mPCle, DB9

• PCM-24D4R2-BE 4-port non-isolated RS-232 mPCle, DB37

PCM-24D4R4-BE
 PCM-26D2CA-AE
 4-port non-isolated RS-422/485 mPCle, DB37
 2-port isolated CANBus mPCle, CANopen, DB9

PCM-27D24DI-AE 24-channel isolated digital I/O with counter mPCle,

DB **PCM-24R2GL-AE** 2-r

2-port Gigabit Ethernet, mPCle, RJ45

■ PCM-24S34G-ABE LTE/HSPA+/GPRS, mPCle, antennas for EMEA/APAC

■ PCM-24S34G-EBE LTE/HSPA+/GPRS, mPCle, antennas for US

Contact Advantech for more compatible iDoor solutions

Optional Accessories

96PSA-A60W24T2-3

A/D $100 \sim 240V$ 60W 24V C14 cord end terminal power adapter

■ **1702002600** Power cable, U

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-2000G-DMKAE
 UNO-2000 DIN-rail kit
 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

Embedded OS

TBD