UNO-2473G

Intel® Atom™/Celeron® J1900 Processor **Regular-Size Automation Computer w/** 4 x GbE, 3 x mPCle, HDMI/VGA



Features

- 4th Generation Intel[®] Atom[™]/Celeron[®] J1900 Processor up to 1.91/2.42 GHz with 4GB DDR3L Memory
- 4/2 x GbE, 3 x USB 2.0 and 1 x USB 3.0/4 x USB 2.0 and 1 x USB 3.0, 2 x RS-232, 2 x RS-422/485 (E3AE), 2 x RS-232/422/485 (J3AE), 1 x VGA, 1 x HDMI, Audio
- Comprehensive Palm, Small, Regular-size form-factor
- Compact with Fanless Design
- Rubber Stopper Design with Captive Screw
- Diverse system I/O and Isolated Digital I/O by iDoor Technology
- 3G/GPS/GPRS/Wi-Fi Communication by iDoor Technology
- Supports MRAM by iDoor Technology
- Chassis Grounding Protection
- LAN Redundancy (Teaming)
- Fault-Protected RS-485 Transceivers With Extended Common-Mode Range











Introduction

Advantech's UNO-2000 series of Embedded Automation Computers are fanless, with a highly ruggedized embedded operating system (Linux-Embedded). The series also includes iDoor technology which supports automation feature extensions such as industry fieldbus communication, Wi-Fi/3G, Digital I/O, including palm, small, and regular-size form-factors with indicated market segments in terms of entry, value and performance product positioning. Both entry and value Embedded Automation Computers feature specific functions and they are suitable for data gateway, concentrator and data server applications. The performance model can shorten your development time and offer multiple networking interfaces to fulfill a diverse range of requirements.

Specifications

General

Certification Dimensions (W x D x H)

Form Factor

Enclosure Mounting

Weight (Net)

Power Requirements

Power Consumption

OS Support

CE, FCC, UL, CCC, BSMI 252 x 149 x 62 mm (9.9" x 5.9" x 2.4") Regular Size

Aluminum Housing Stand, Wall, VESA (Optional), Din-rail (Optional)

1.6kg (3.5lbs)

28W (Typical), 48W (Max) / 10W (Typical), 14W(Max)

Microsoft® Windows 7/8

System Hardware

BIOS

Watchdog Timer

System Chip

Graphics Engine

LED Indicators

Storage

I AN Ports

USB Ports

Displays

AMI UEFI 128Mbit Flash BIOS

Programmable 256 levels timer interval, from 1 to 255 sec Intel® Atom™ Processor E3845 1.91 GHz Quad Core, 2MB L2 Intel® Celeron™ Processor J1900 2.42 GHz Quad Core, 2MB L2 Intel AtomTM/Celeron J1900 Processor SoC integrated On-board 4GB DDR3L 1600 MHz / 4GB DDR3L 1333 MHz

Intel® HD Graphics: Gen7 with 4EU Intel® i210-IT GbE, 802,1Qay, IEEE1588/802,1AS, 802,3az LEDs for Power, battery, LAN (Active, Status), Tx/Rx (UNO-2473G-E3AE only) and HDD

One mSATA

One drive bay for SATA 2.5" HDD

CFast drive by iDoor Technology (Optional)

3 x Full-size mPCle slot, mPCle 2.0 for UNO-2473G-E3AE

Expansion 1 x Full-size mPCle slot, mPCle 2.0 for UNO-2473G-J3AE

I/O Interfaces

 Serial Ports 2 x RS-232, DB9, 50 \sim 115.2kbps , 2 x RS-422/485, DB9, auto

flow control, 50 ~ 115.2kbps(E3AE)

2 x RS-232, DB9, 50 ~ 115.2kbps, 2 x 232/422/485, DB9, auto flow control, 50 ~ 115.2kbps (J3AE) 4/2 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000Base-T Fast

Ethernet

4 x USB Ports (3 x USB 2.0, 1 x USB 3.0 compliant) for UNO-

2473G-E3AE 5 x USB Ports (4 x USB 2.0, 1 x USB 3.0 compliant) for UNO-

1 x VGA, supports 2560 x 1600 at 60Hz 1 x HDMI, supports 1920 x 1080 at 60Hz eDP is supported on a project basis

Power Connector 1 x 3 Pins, Terminal Block **Grounding Protection** Chassis Grounding

Environment

Operating Temperature

Storage Temperature Relative Humidity

Shock Protection Vibration Protection

Ingress Protection

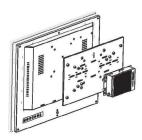
UNO-2473G-E3AE: - 20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow UNO-2473G-J3AE: - 10 ~ 60°C (14 ~ 140°F) @ 5 ~ 85% RH

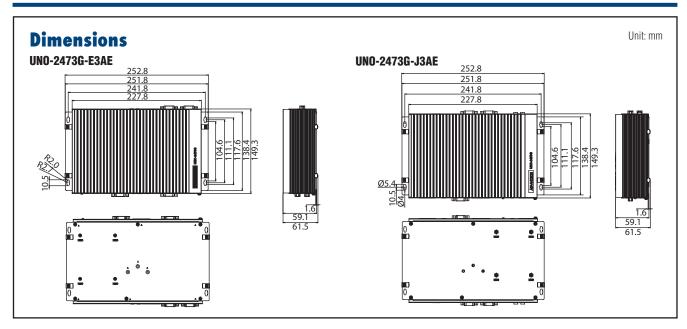
with 0.7m/s airflow - 40 ~ 85°C (-40 ~ 185°F) 10 ~ 95% RH @ 40°C, non-condensing Operating, IEC 60068-2-27, 50G, half sine, 11ms Operating, IEC 60068-2-64, 2Grms, random, 5 ~ 500Hz, 1hr/axis (mSATA) Operating, IEC 60068-2-64, 0.7Grms, random, 5 ~ 500Hz,

Installation Scenario

DIN-rail Mount Illustration

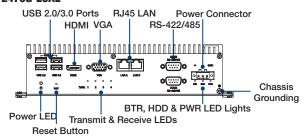
VESA Mount Illustration



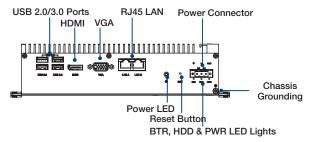


Front I/O View

UNO-2473G-E3AE



UNO-2473G-J3AE



Ordering Information

Intel® Atom™ E3845 1.91GHz, 4GB, 4 x LANs, 3 x mPCle Intel® Celeron J1900 2.42GHz, 4GB, 2 x LANs, 1 x mPCle UNO-2473G-F3AF UNO-2473G-J3AE

iDoor Modules

PCM-24D4R2-AE PCM-24D4R4-AE

PCM-26D2CA-AE 2-Port Isolated CANBus mPCIe, CANopen, DB9 PCM-27D24DI-AF

PCM-2300MR-AE PCM-24S2WF-AE

PCM-24U2U3-AE

PCM-24R2GL-AE PCM-24S23G-AE

4-Port Non-Isolated RS-232 mPCle, DB37 4-Port Non-Isolated RS-422/485 mPCle, DB37

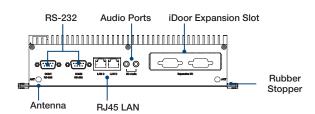
24-Channel Isolated Digital I/O w/ counter mPCle, DB37 MR4A16B, MRAM, 2 MByte, mPCle Wi-Fi 802.11 a/b/g/n 2T2R w/ Bluetooth4.0, Half-size mPCle, 2-port

2-Port USB 3.0, mPCle, USB-A type

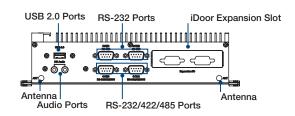
2-Port Gigabit Ethernet, mPCle, RJ45 Wide-Temp 3.75G HSPA and GPS, 2-in-1, Full-size mPCle w/ Redundant SIM Card holder, 2-port SMA

Rear I/O View

UNO-2473G-E3AE



UNO-2473G-J3AE



Optional Accessories

96PSA-A60W24T2

1702002600 1702002605 1702031801

1700000596 1700001524 170203183C

170203180A UNO-2000G-DMKAE UNO-2000G-VMKAE

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

ADP A/D 100-240V 60W 24V C14 Cord End Terminal Power Cable US Plug 1.8 M (Industrial Grade) Power Cable EU Plug 1.8 M (Industrial Grade) Power Cable EU Plug 1.8 M (Industrial Grade) Power Cable China/Australia Plug 1.8 M (Industrial Grade) Power Cable 3-pin US type 1.8 M (Commercial Grade) Power Cable 3-pin EU type 1.8 M (Commercial Grade) Power Cable 3-pin UK type 1.8 M (Commercial Grade) UNO-2000 DIN Fall Kit

UNO-2000 VESA Mount Kit

Embedded O/S

2070013268

Image WES7P X64 MUI. V4.12 B001 for UNO-2473G-Ex

S/W Bundle Offering

 WA-HU2473G-J15H2AE WA-SU2473G-J15H5AE UNO-2473G-J3AE, HMI Runtime 1500 tags, 32G mSATA, WES7P UNO-2473G-J3AE, SCADA Runtime 1500 tags, 128G SSD, WES7P