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 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, 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 highly ruggedized with an embedded operating system (Linux-Embedded). It 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

System Hardware

BIOS

Watchdog Timer Processor

System Chip

Memory **Graphics Engine** Ethernet

LED Indicators Storage

Expansion

AMI UEFI 128Mbit Flash BIOS

Microsoft® Windows 7/8

CE, FCC, UL, CCC, BSMI

Regular Size

Aluminum Housing

252 x 149 x 62 mm (9.9" x 5.9" x 2.4")

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

24V_{DC} ± 20% / 9 ~ 36 V_{DC} (e.g +12V @ 1.16A)

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

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

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, 802.1Qav, IEEE1588/802.1AS, 802.3az LEDs for Power, battery, LAN (Active, Status), Tx/Rx and HDD

One drive bay for SATA 2.5" HDD (Compatible with 9.5mm height HDD)

CFast drive by iDoor Technology (Optional) 3 x Full-size mPCle slot, mPCle 2.0 for UNO-2473G-E3AE 1 x Full-size mPCle slot, mPCle 2.0 for UNO-2473G-J3AE

I/O Interfaces

 Serial Ports 2 x RS-232, DB9, 50~115.2kbps

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

USB Ports

Displays

Power Connector Grounding Protection 4 x USB Ports (3 x USB2.0, 1 x USB3.0 compliant) 5 x USB Ports (4 x USB 2.0, 1 x USB 3.0 compliant) 1 x VGA, supports 2560 x 1600 at 60Hz 1 x HDMI, supports 1920 x 1080 at 60Hz eDP is supported on a project basisudio Line-In. Line-Out

1 x 3 Pins, Terminal Block Chassis Grounding

Environment

Operating Temperature

UNO-2473G-E3AE: - 20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow UNO-24873G-J3AE: - 10 ~ 60°C (14 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow

Storage Temperature

Relative Humidity Shock Protection

Vibration Protection

- 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, 1hr/axis (HDD)

Ingress Protection

Application Software

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SUSIÂCCESS	Version: V2.1 or above An innovative remote device management software, allowing efficient remote monitoring, quick recovery & backup, and real-time remote configuration, to create a more intelligent and interconnected embedded computing solution.
WebAcc ss	Version: V7.1 or above WebAccess, as the core of Advantech's IoT solution, is full web browser-based software package for HMI and SCADA software. All HMI and SCADA software features including: Animated Graphics Displays, Real-time Data, Control, Trends, Alarms and Logs, are available in a standard web browser. WebAccess is built around the latest internet technologies. With its open architecture, vertical domain applications can easily be integrated.
PANELEXPRESS Designed for Obnivations	Version: V2.0.3.8 or above Panel Express, a windows based HMI mini SCADA, realizes the cross platform flexibility offered by WebOP Designer to switch hardware for the consideration of cost and performance become an easy job. Panel Express software provides the best economic and express solution for data intensive high-end HMI applications.
Webop	Version: V2.0.3.8 or above An easy to use integrated development tool featuring solution- oriented screen objects, high-end graphics, Windows fonts for multi-language applications. WebOP runtime, a part of WebOP Designer, guarantees reliability and performance because of the

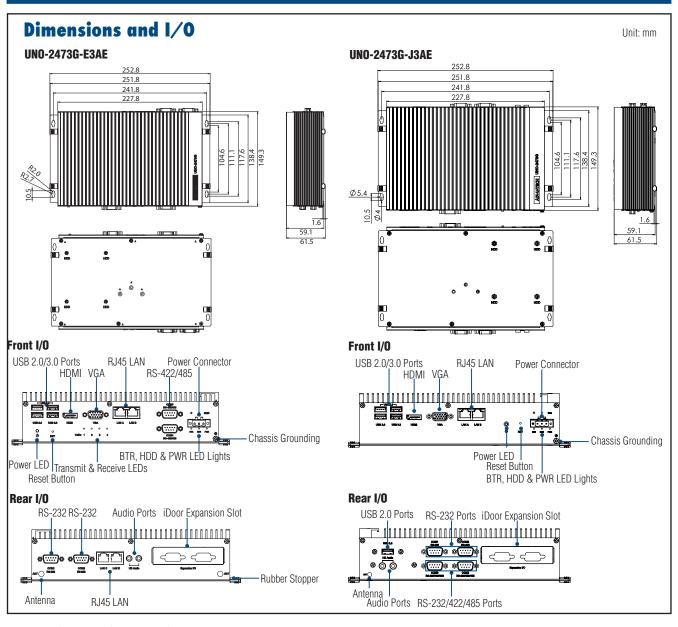
and sub-second screen switching

minimum system overhead, high communication data rates,

ADVANTECH

Embedded Automation Computers

All product specifications are subject to change without notice



Ordering Information

 UNO-2473G-E3AE UNO-2473G-J3AE Intel® Atom™ E3845 1.91GHz, 4GB, 4 x LANs, 3 x mPCle Intel® Celeron J1900 2.42GHz. 4GB. 2 x LANs. 1 x mPCle

iDoor Modules

- PCM-24D4R2-AE
- PCM-24D4R4-AE
- PCM-26D2CA-AE PCM-27D24DI-AE
- 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 2-Port Isolated CANBus mPCle, CANOpen, DB9 24-Channel Isolated Digital I/O w/ counter mPCle, DB37 MR4A16B, MRAM, 2 MByte, mPCle

- WIFI 802.11 a/b/g/n 2T2R w/ Bluetooth4.0, Half-size mPCle, 2-port SMA 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

Accessories

- 96PSA-A60W24T2
- PWR-249-AE
- 1702002600
- 1702002605
- 1702031801
- 1700000596
- 1700001524
- 170203183C 170203180A
- ADP A/D 100-240V 60W 24V C14 Cord End Terminal 65W AC to DC power adapter (Commercial Grade)
- 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)
- 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)

Embedded OS & Automation Software

- 2070013268
- 968WEXP003X
- 968WEXP015X
- 968WEXP050X

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