UNO-1372G-J

Intel® Celeron® J1900 Small-Size DIN-rail Control PC, 4G DDR3L, 2 GbE, iso. 4 COM, 4 DI, 4 DO, 4 USB, HDMI, **DP. TPM2.0**



Features

- Intel® Celeron® J1900 2.0GHz processor with 4GB DDR3L memory
- Robust design for industrial control and harsh environment
- Isolated protection of COM and digital Input/output
- Compact fanless design
- · Wide power input range and operating temperature
- Chassis grounding protection
- Flexibility of expanding functionality for various application
- Support diverse industrial fieldbus, IO & peripheral and wireless communication iDoor modules
- Dedicated TPM2.0 microcontroller designed for hardware security







Introduction

The UNO-1372G series is a ruggedized fanless automation PC. The DIN-rail mounting form factor is suitable to be used in control cabinet for industrial automation application. The well-designed heat dispassion mechanism enables the UNO-1372G operating in wide temperatures (from -20 to 60°C). The latest UNO-1372G-J includes Intel Celeron J1900 platform and builds in 4G DDR3L RAM. It provides rich interfaces including 2 x GbE LAN, 1 x USB3.0, 3 x USB2.0 ports, 4 COM ports and 4DI/4DI. It also equips with one DP and one HDMI for display. UNO-1372G-J provides great expansion including 2 x Mini-PCIe (one supports mSATA option) and supporting Advantech's latest iDoor technology. It has great expandability for wireless communication, I/O expansion and industrial protocols via iDoor technology. With multiple OS and driver support, such as Windows 7, Windows 10 and embedded Linux, users can integrate applications easily in an application ready platform that can provide versatile functions to fulfill diverse requirements.

Specifications

General

Certification CE, FCC, UL, CCC, BSMI

Dimensions (W x D x H) 65 x 105 x 150mm (2.6" x 4.1" x 5.9")

Form Factor Small Size Enclosure Aluminum Housing

Mounting DIN-rail 1kg (2.2lbs) Weight (Net) **Power Requirement** 10~36V_{DC}

19W (Typical), 35W (Max.) **Power Consumption**

Microsoft® Windows 7/8/10, WES7, AdvLinux (Ubuntu OS Support

System Hardware

RIOS AMI UEFI 64Mbit Flash BIOS

Programmable 255 levels timer interval, from 1 to 255 sec **Watchdog Timer**

Intel® Celeron® J1900, 2GHz Integrated Intel SoC Chipset Built-in 4GB DDR3L 1600 MHz (Up to 8GB) **Processor** System Chip

Memory Graphics Engine Intel® HD Graphics

Intel® i210-IT GbE, 802,1Qav, 802,1AS, 802,3az **Ethernet LED Indicators** LEDs for Power, RTC battery, LAN (Active, Status), COM (Tx/Rx), HDD, Programmable LED

1 x mSATA shared with mPCle slot Storage 1 x drive bay for SATA 2.5" HDD (Compatible with 9.5mm

height HDD)

Expansion 2 x Full size mPCle slots

Trusted Platform Module

I/O Interfaces

 Isolated Serial Ports 4 x RS232/422/485, DB9, 50bps-115,2kbps (Isolation Protection 1500V_{DC})

2 x RJ45, 10/100/1000 Mbps IEEE 802,3u 1000BASE-T Fast LAN Ports

Ethernet

USB Ports 4 x USB Ports (3 x USB2.0, 1 x USB 3.0) **Isolated DIO** 4-ch digital input (Default contact) 4-ch digital output (2500 VDC) 1 x DP, supports 2560 x 1440 @ 60Hz Displays 1 x HDMI, supports 1920 x 1080 @ 60Hz

1 x 2 Pins, Terminal Block **Power Connector Grounding Protection** Chassis Grounding

Environment

Operating Temperature

Storage Temperature

Relative Humidity Shock Protection

Vibration Protection

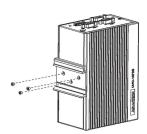
Ingress Protection

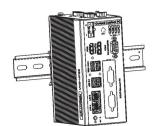
- 20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow

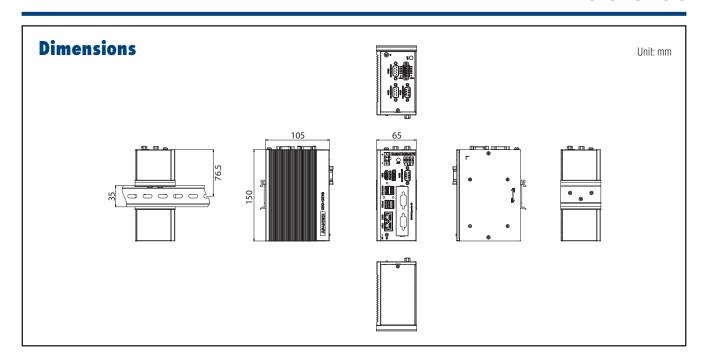
(Industry SSD)
- 40 ~ 85°C (-40 ~ 185°F)
95% RH @ 40°C, non-condensing
Operating, IEC 60068-2-27, 50G, half sine, 11ms
Operating, IEC 60068-2-64, 1Grms, random, 5 ~ 500Hz, 1 hr/axis

Installation Scenario

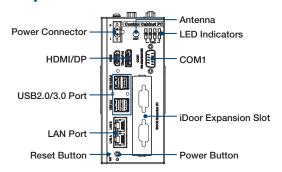
DIN-rail mounting illustration







Front I/O View



Ordering Information

UNO-1372G-J021AE Intel Celeron J1900, 2GHz, 4GB DDR3L, 2 x LAN, iso.
 4 x COM, 4 x USB, iso. 4 DI/4D0, iDoor

iDoor Modules

PCM-23U1DG-BEPCM-24R2GL-AEPCM-24D2R2-BE

PCM-24D2R2-BEPCM-24D4R2-BEPCM-24S2WF-BE

■ PCM-24S33G-AE

■ PCM-26R2PN-MAE

PCM-26R2PN-SAE

PCM-26D1DB-MAE

PCM-26D1DB-SAE

Internal locked USB Slot for USB Dongle 2-Port Gigabit Ethernet, mPCle, RJ45 2-Port Isolated RS-232 mPCle, DB9 4-Port Non-Isolated RS-232 mPCle, DB37

WiFi 802.11 ac/a/b/g/n 2T2R w/Bluetooth 4.1 Wide-Temp 3.75G HSPA and GPS, 2-in-1, Full-size

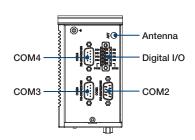
mPCle w/ Redundant SIM Card holder, 2-port SMA 2-Port Hilscher netX100 FieldBus mPCle, PROFINET, RJ45, IO-Controller

2-Port Hilscher netX100 FieldBus mPCle, PROFINET, RJ45, IO-Device

1-Port Hilscher netX100 FieldBus mPCle, PROFIBUS, DB9, Master

1-Port Hilscher netX100 FieldBus mPCle, PROFIBUS, DB9, Slave

Top I/O View



Optional Accessories

Adapter & Power cable

PWR-247-DE
 1702002600
 1702002605
 1702031801
 1700000596
 100-240V 60W 24V 2.5A Power Supply
 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)

DIN-Rail Power Supply

• **UNO-IPS2460-AE** 60Watts Compact Size DIN-Rail Power Supply

Embedded O/S

20703WE7PS0001 Img WS7P x64 MUI v4.18 B010 UNO-1372G-J0xxAE

20703LEB1S0080 Image AdvLinuxTu V2.0.5 for UNO series **20703WE7PS0012** Img WS7P x86 MUI V4.18 B022 for UNO-1372G-

JOxxAE

20703WX6HS0014 Img WIN10 LTSB v6.03 B003 UNO-1372G-J0xxAE
 20703WX9ES0029 Img W10 LTSC V6.05 B026 UNO-1372G-J0xxAE 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.