

# UNO-3272/3282

Intel® Core™ 2 Duo / Celeron® M  
Automation Computers with  
PCI/PCle, 2 x GbE, 4 x COM, DVI



## Introduction

UNO-3272 and UNO-3282 are high-performance Embedded Automation Computers with rich I/Os and PCI/PCle expansion slots. They feature a rugged design with Gigabit LAN and battery backup SRAM. Different from general industrial PCs, UNO-3272 and UNO-3282 are more compact and reliable with a fanless, cableless and diskless design. They are open platforms which can fulfill any demanding requirement from the industrial field, and ideal solutions for industrial automation and control. UNO-3272 and UNO-3282 provide embedded operating system with a pre-configured image that has optimized onboard device drivers, and supports Windows XP Embedded to fulfill the toughest requirements for complete functionality and high reliability.

## Specifications

### General

- **Certifications** CE, FCC class A, UL, CCC
- **Dimensions (W x D x H)** 200 x 240 x 130 mm (7.9" x 9.4" x 5")
- **Enclosure** Aluminum
- **Mounting** Wallmount, Desktop
- **Power Consumption** 40 W (Typical, L7400, no add-on card)
- **Power Requirements** 9 ~ 36 V<sub>DC</sub> (e.g +24 V @ 5 A), ATX
- **Weight** 5.5 kg
- **OS Support** WES, Windows XP Embedded, Windows 2000/XP/ Vista/ Windows 7, Linux, Windows CE 6.0, QNX  
Fanless with no internal cabling
- **System Design** Built-in Advantech DiagAnywhere agent on Windows CE/ XPe
- **Remote Management**

### System Hardware

- **CPU** Intel Core 2 Duo L7400 1.5 GHz, Celeron M 440 1.86 GHz
- **Memory** 1GB DDR2 SDRAM built-in
- **Battery Backup SRAM** 512 KB (UNO-3282)
- **Indicators** LED for Power, Power Standby, HDD LED; 4 COM ports Tx/Rx, 2 LAN ports Tx/Rx, 4 user define LED and alarm for BatteryBackup
- **Keyboard/Mouse** 2 x PS/2 connector for Keyboard & Mouse
- **Audio** Line in, Line out
- **Expansion Slots** One PCle + one PCI riser board installed, 2 x PCI v2.2 riser replacable in accessory (UNO-3282)  
2 x PCI V2.2 riser board included (UNO-3272)  
(Note: The heat dissipation in the PCI cards may affect thermal performance)
- **PCI/PCle Slot Power** PCI: 12 V @ 2.5 A, -12 V @ 0.8 A, +5 V @ 4 A, +3.3 V @ 3 A  
PCle: 12 V @ 2.5 A, +3.3 V @ 3 A  
(total combined power consumption on the PCI slots should be less than 20W)
- **Storage**
  - SSD 1x Internal , 1x External CompactFlash® slot (UNO-3282)
  - 1 x External type I/II CompactFlash slot (UNO-3272)
  - HDD Two built-in 2.5" SATA HDD brackets support RAID 0/1

## Features

- Onboard Intel Core 2 Duo 1.5 GHz/Celeron M 1.86 GHz processors
- Dual SSD/HDD with on-board RAID 0/1 support
- Onboard 512 KB Battery-backup SRAM
- Optimized thermal design to support -20~60° C operating tempertaure in full CPU and I/O loads
- 2 x RS-232 and 2 x RS-232/422/485 ports with automatic flow control
- 2 x 10/100/1000 Base-T Ethernet ports with teaming function
- One PCle plus one PCI or two PCI expansion slots for versatile applications
- Both DVI-D and VGA displays to support dual display output
- Support latest Windows® 7 OS
- Onboard system & I/O LED indicators with programmable feature
- Fanless design with no internal cabling
- Isolation between chassis and power ground
- One internal USB for dongle and flash drive

- **Display** Supports up to 1600 x 1200 @ 85 Hz  
VGA + DVI-D, support dual display
- **Watchdog Timer** Programmable 256 levels timer interval, from 1 to 255 sec
- **Communication**
- **Clock** Battery-backup RTC for time and date
- **LAN** 2 x 10/100/1000 Base-T RJ-45 ports (Intel 82573L chip, supports teaming, Wake On LAN function and built-in boot ROM in flash BIOS)
- **Serial Ports** 2 x RS-232, 2 x RS-232/422/485 with DB9 connectors, automatic RS-485 data flow control
- **Serial Port Speed** RS-232: 50bps ~ 115.2 kbps  
RS-422/485: 50bps ~ 921.6 kbps (Max)
- **USB** 5 x USB, USB EHCI, Rev. 2.0 compliant (1 is for USB dongle and USB flash inside chassis, UNO-3282 only)
- **Environment**
- **Humidity** 95% @ 40° C (non-condensing)
- **Operating Temperature (With CF Card)** UNO-3282-D12E: -20 ~ 60° C (-4 ~ 140° F)  
UNO-3272-C32E: -20 ~ 50° C (-4 ~ 122° F)
- **Storage Temperature** -20 ~ 80° C (-4 ~ 176° F)
- **Shock Protection** IEC 68 2-27  
CompactFlash: 50 G @ wall mount, half sine, 11 ms  
HDD: 20 G @ wall mount, half sine, 11 ms  
IEC 68 2-64 (Random 1 Oct./min, 1hr/axis)  
CompactFlash: 5 Grms @ 5 ~ 500 Hz  
HDD: 1 Grms @ 5 ~ 500 Hz
- **Vibration Protection**
- **Ordering Information**
- **UNO-3272-C32E** Celeron M 1.86 GHz, 1 GB RAM Automation Computer
- **UNO-3282-D12E** Core 2 Duo 1.5 GHz, 1 GB RAM Automation Computer

### Accessories

- **PCLS-DIAGAW10** Advantech Remote Monitoring & Diagnosis Utility

1	Operator Panels
2	Fanless Panel PCs
3	Panel Computers
4	Display Solutions
5	Ethernet Switches
6	Device Servers
7	Serial Comm. Cards
8	Video Surveillance
9	Pre-Configured Systems
10	IPC Chassis
11	SBCs and Backplanes
12	Industrial Motherboards
13	Embedded IPCs
14	Mobile Computers
15	IPC Peripherals
16	DAQ
17	Signal Conditioning
18	USB DAQ