

# UNO-3272/3282 Intel® Core™2 Duo/Celeron® M Automation Computer with PCI/PCIe, 2 x GbE, 4 x COM, DVI

**NEW**



## Features

- Onboard Core 2 Duo 1.5 GHz/Celeron M 1.86 GHz processor
- 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 temperature 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 PCIe 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

## Introduction

Advantech's UNO-3200 series is high-performance Core 2 Duo Automation Computer with two PCI expansion or one PCIe plus PCI slots. UNO-3200 features a rugged design with Gigabit LAN and battery backup SRAM. Different from general industrial PCs, UNO-3200 series is 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 it is an ideal solution for industrial automation and control. UNO-3200 series 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** Wall/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
- System Design** Fanless with no internal cabling
- Remote Management** Built-in Advantech DiagAnywhere agent on Windows CE/ XPe

### System Hardware

- CPU** Intel Core 2 Duo L7400 1.5 GHz, Celeron M 440 1.86 GHz
- Memory** 1GB DDR2 SDRAM built-in (optional 2 GB)
- Battery Backup SRAM** 512 KB
- 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 PCIe x 1 + one PCI riser board installed, 2xPCIe 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/PCIe Slot Power** PCI: 12 V @ 2.5 A, -12 V @ 0.8 A, +5 V @ 4 A, +3.3 V @ 3 A  
PCIe: 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

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