

# UNO-3282/3272

Intel® Core™ 2 Duo/Celeron® M  
Fanless Box PC 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
- Onboard 512 KB Battery-backup SRAM
- 2 x RS-232 and 2 x RS-232/422/485 ports with automatic flow control
- 2 x 10/100/1000Base-T Ethernet ports with Teaming function support
- One PCIe x1 and one PCI, or two PCI expansion slots (user replaceable)
- Supports line-in and line-out with audio interface
- Both DVI-D and VGA displays to support dual display output
- Windows® XP Embedded ready solution
- Onboard system & I/O LED indicators
- Supports Wake on LAN and Boot from LAN function
- Fanless design with no internal cabling

## Introduction

Advantech's UNO-3200 series is high-performance Core 2 Duo Fanless Box PC with two PCI expansion or PCIe x1 plus PCI slots. UNO-3200 series feature a rugged design with battery backup SRAM. The Gigabit LAN on the UNO-3200 series supports Teaming function with fault tolerance, link aggregation, and load balance features included. 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** 100 W
- **Power Requirements** 9 ~ 36 V<sub>DC</sub> (e.g +24 V @ 5 A), ATX
- **Weight** 5.5 kg
- **OS Support** Windows XP Embedded, Windows 2000/XP/ Vista, Linux

### System Hardware

- **CPU** Intel Core 2 Duo L7400 1.5 GHz, Celeron M 440 1.86 GHz
- **Memory** 1GB DDR2 SDRAM
- **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 PCIe x1 + one PCI or two PCI V2.2 riser boards (user replaceable kit included in accessory box) (Note: The heat dissipation in the PCI cards may affect thermal performance)
- **PCI/PCIe Slot Power** PCI: 12 V @ 1.5 A, -12 V @ 0.5 A, +5 V @ 3 A, +3.3 V @ 3 A  
PCIe x1: 12 V @ 1.5 A, +3.3 V @ 3 A
- **Storage**
  - SSD 1 x Internal type I/II CompactFlash® slot (UNO-3282)  
1 x External type I/II CompactFlash slot
  - HDD Two built-in 2.5" SATA HDD brackets

- **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 10/100/1000Base-T RJ-45 ports (Intel 82573L chip, supports Wake On LAN, Teaming 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 EHCl, Rev. 2.0 compliant (1 is for USB dongle and USB flash inside chassis - UNO-3282)

### 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)
- **Shock Protection** IEC 68 2-27  
CompactFlash: 50 G @ wall mount, half sine, 11 ms  
HDD: 20 G @ wall mount, half sine, 11 ms
- **Vibration Protection** IEC 68 2-64 (Random 1 Oct./min, 1hr/axis)  
CompactFlash: 5 Grms @ 5 ~ 500 Hz  
HDD: 1 Grms @ 5 ~ 500 Hz

## Ordering Information

- **UNO-3282-D12E** Core 2 Duo 1.5 GHz, 1 GB RAM Fanless Box PC
- **UNO-3272-C32E** Celeron M 1.86 GHz, 1 GB RAM Fanless Box PC