# UNO-2182

# Intel® Core ™2 Duo Automation Computer with 2 x GbE. 4 x COM. DVI



## **Features**

- Onboard Core<sup>™</sup> 2 Duo 1.5 GHz (L7400)
- Onboard 512 KB battery-backup SRAM
- 2 x RS-232 and two RS-232/422/485 ports with automatic flow control
- 2 x 10/100/1000 Base-T Ethernet
- DVI-I supports dual display
- Audio with Mic in, Line in, Line out
- Two USB and one type I/II PC card
- PCI-104 expansion
- Windows® XP Embedded SP2 ready solution
- Supports one SATA HDD and one external eSATA devices
- Onboard system status LED indicators
- Supports wake on LAN and boot from LAN function
- Fanless design with no internal cabling
- Isolation between chassis and power ground











## Introduction

UNO-2182 is a high-performance Core 2 Duo grade controller that supports PCI-104 expansion, serial communication ports and several other networking interfaces. UNO-2182 supports Windows XP Embedded OS, which offers a pre-configured image with optimized onboard device drivers. Windows XP Embedded delivers the power of the Windows operating system in componentized form. You can seamlessly integrate your applications into Windows XP Embedded and speed up your system development with an application ready platform that can provide a rich networking interface to fulfill diverse requirements.

# **Specifications**

## General

Certifications CE, FCC class A, UL, CCC Dimensions (W x D x H) 255 x 152 x 69 mm (10" x 6.0" x 2.7")

Enclosure Aluminum Mounting Wallmount

Industrial Grounding Isolation between chassis and power ground

**Power Consumption** 35 W (Typical) **Power Requirements** Min. 48 W (9 ~ 36  $V_{DC}$ ) (e.g +24 V @ 2 A), ATX

Weight

OS Support WES Windows XP Embedded, Windows 2000/XP/

Vista, Windows 7, Linux Fanless with no internal cabling

System Design

 Remote Management Built-in Advantech DiagAnywhere agent on Windows

CE/XPe

# **System Hardware**

CPU Core 2 Duo L7400 1.5 GHz 1 GB DDR2 SDRAM built-in Memory

Indicators LEDs for Power, IDE, Alarm for battery backup SRAM,

LAN (Active, Status) and Serial (Tx, Rx)

 Battery Backup SRAM 512 KB Keyboard/Mouse 1 x PS/2

PC Card 1 x PC Card slot, supports CardBus (Card-32) Card

and 16-bit (PCMCIA 2.1/JEIDA4.2) card

Supports +5 V, +3.3 V

 PC/104 Slot PCI-104 slot, supports +5 & 3.3V power Storage SSD: 1 x external type I/II CompactFlash® slot

HDD: Build-in one 2.5" SATA/IDE HDD bracket DVI-I supports DVI and VGA for dual display

Display Audio Mic in, Line in, Line out SATA

1 x internal, 1 x external SATA 1.0 Watchdog Timer

Programmable 256 levels timer interval, from 1 to 255

#### I/O Interface

Serial Ports 2 x RS-232, 2 x RS-232/422/485 with DB9 connectors

Automatic RS-485 data flow control

RS-232: 50 ~ 115.2 kbps Serial Port Speed RS-422/485: 50 ~ 921.6 kbps (Max.)

2 x 10/100/1000 Base-T RJ45 ports (supports wake on LAN

LAN and built-in boot ROM in flash BIOS)

USB Ports 2 x USB, EHCI, Rev. 2.0 compliant

### **Environment**

- Humidity 95% @ 40° C (non-condensing)

**Operating Temperature** (IEC 60068-2-2, 100% CPU/ I/O loading)

-20 ~ 60° C (-4 ~ 140° F) @ 5 ~ 85% RH.

 Shock Protection IFC 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: 2 Grms @ 5 ~ 500 Hz, HDD: 1 Grms @ 5 ~ 500 Hz

# **Ordering Information**

UNO-2182-D12E

Vibration Protection

Core 2 Duo 1.5 GHz, 1 GB RAM Automation Computer

UN02182D127003E-T Core 2 Duo 1.5GHz, 2GB RAM, w/ -10~50° C

Operation Temperature

#### **Accessories**

UNO-PCM22-AE 2 x PC/104 expansion kit for UNO-2100 series

UNO-FPM21-AE UNO-2000 series VESA mount kit

PCLS-DIAGAW10 Advantech Remote Monitoring & Diagnosis Utility

Self-service Terminals