# UNO-3082 UNO-3084

# Intel® Core ™2 Duo Automation Computer with Dual DVI. 2 x PCI and Firewire

Intel® Core ™2 Duo Automation Computer with Dual DVI, 1 x PCIe, 3 x PCI and Firewire



## **Features**

- Onboard Core 2 Duo L7500 1.6 GHz processor
- Dual DVI-I to support up to 3 displays
- Dual IEEE-1394 for vision inspection devices
- AT/ATX power mode by jumper selection
- Onboard 512KB Battery- backup SRAM
- Two RS-232/422/485 ports with automatic flow control
- Two 10/100/1000 Base-T RJ-45 ports with teaming function support
- Up to three PCI and one PCIe expansion
- 4-ch isolated DI, 4-ch isolated DO
- Dual SSD/HDD with onboard RAID 0/1 support
- Fanless design with no internal cables
- Isolation between chassis and power ground
- Front-accessible I/O design
- One internal USB for dongle and flash drive

## Introduction

Advantech's UNO-3082/3084 are high performance Core 2 Duo Embedded Automation Computers with up to four expansion slots for PCI express or PCI support. The Gigabit LAN on the UNO-3082/3084 supports Teaming function with fault tolerance, link aggregation, and load balance features. It also equipped two IEEE 1394b bilingual interfaces which allow users to connect their own devices for machine vision application. Critical data can be saved in UNO-3082/3084 on the battery backup SRAM. It also support two HDD bays with RAID 0/1.

# **Specifications**

#### General

- Certifications
- Dimensions (W x H x D)
- Enclosure
- Mounting
- Industrial Grounding Power Consumption
- **Power Requirement**
- Weight
- OS Support
- System Design

- Remote Management

- CE, FCC class A, UL, CCC
- 157 x 238 x 177 mm ( 6.2"x 9.3"x 7") (UNO-3082) 195 x 238 x 177mm (`7.6"x 9.3"x 7") (ÙNO-3084)
- Isolation between chassis and power ground
- selection and BIOS AT simulation (support system reboot
- Fanless with no internal cabling
- Built-in Advantech DiagAnywhere agent on Windows CE/XPe

## **System Hardware**

- CPU
- Memory Battery Backup SRAM Expansion Slots
- PCI Slot Power
- Indicators
- Audio
- Storage
- Display
- Watchdog Timer

#### I/O Interface

- ClockLAN

- Aluminum + SECC Panel / Stand / Wall
- 40 W (Typical, no add-on card)
- 9 ~ 36 V<sub>DC</sub> (e.g +24 V @ 5 A), ATX, AT/ATX power Jumper
- automatically after power recovery)
  4.5 kg (UNO-3082); 5 kg (UNO-3084)
- WES, Windows XP Embedded, Windows Vista/XP, Windows 7, Windows CE 6.0, Linux, QNX

Intel Core 2 Duo L7500 1.6 GHz 2GB DDRII SDRAM built-in (4GB optional) 512 KB

One PClex1 plus three PCl v2.2 slots (UNO-3084) 12 V @ 3 A, -12 V @ 0.8 A, +5 V @ 6 A,

+3.3 V @ 6 A (total combined power consumption on the PCI

LEDs for Power, Standby, HDD, SRAM battery, Rx/Tx for

1x internal type I/ II CompactFlash slot

support for RAID 0 and RAID 1

Battery-backup RTC for time and date

1x external type I/ II CompactFlash slot
Two built-in 2.5" SATA HDD brackets with

Programmable 256 level timer interval, from 1~255 sec

2 x 10/100/1000 Base-T RJ-45 ports (Intel 82574L, supports

Wake on LAN, Teaming, built-in boot ROM, and IEEE1588

One external SATA 2.0 (does not support hot swap)

Two PCI V2.2 slots (UNO-3082)

slots should be less than 40W)

COM ports

AC 97, Line Out

Dual DVI-D independent, or DVI-D + Dual VGA cloned displays

hardware support)

### **Timer/Counter**

Serial Ports

Serial Speed

IEEE 1394 (Firewire)

isolation and ESD protect Opto-Isolator Response:

**USB Ports** 

Optional I/Ò

Digital Input

Wet contact:

Dry contact:

**Digital Output** 

- **Counter Source**
- DI1 & DI3 **Pulse Output** D02 & D03
- Can be cascaded as one 32-bit counter/timer
- Down counting, preset counting value
- **Timer Time Base**
- 100 kHz, 10 kHz, 1 kHz, 100 Hz

#### **Environment**

- **Operating Temperature**
- Storage Temperature Humidity
- **Shock Protection**
- Vibration Protection
- (IEC 60068-2-2, 100% CPU/ I/O loading)  $-10 \sim 55^{\circ}$  C (14  $\sim 131^{\circ}$  F)  $-20 \sim 80^{\circ}$  C (-4  $\sim 176^{\circ}$  F) 95% @ 40° C (non-condensing)

  - 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®: 2 Grms @ 5 ~ 500 Hz, HDD: 1 Grms @ 5 ~ 500 Hz

 $2 \times RS$ -232/422/485 with DB9 connectors, automatic RS-485

PS/2 KB/MS, 2 x COM-232 (with packing), 2 x USB 2.0, LPT

data flow control, 2 x RS-232 (optional)

Logic 0: -3  $\sim$  3  $V_{DC}$ ; Logic 1:  $\pm 10 \sim 50 \ V_{DC}$ 

Logic 0: open; Logic 1: close to GND 1500  $V_{DC}$ , 50~70  $V_{DC}$  over voltage protection

25µs- Interrupt capable channel: DIO ~ DI3

Keeps output status after system hot reset

1,500 V<sub>DC</sub> isolation, 200 mA max/channel sink current

Open collector to 40V (200mA maximum sink current load)

2 x type B (Bilingual)

4-ch. contact DI0 ~ DI3

4 ch. D00 ~ D03

and 3 kHz speed

RS-232 Speed: 50 bps ~ 115.2 kbps, RS-422/485 Speed: 300 bps ~ 921.6 kbps (Max)

5 x USB 2.0 (one internal), 2 x USB 2.0 pin header

# **Ordering Information**

Online Download www.advantech.com/products

- UNO-3082-D23E
- UNO-3084-D23E
- PCLS-DIAGAW10 19600482938000
- 1960045707N010
- Core 2 Duo, 2 x PCI Automation Computer Core 2 Duo, 3 x PCI/1 x PCIe Automation Computer Advantech Remote Monitoring & Diagnosis Utility Top cover of UNO-3082 with venting hole

Top cover of UNO-3084 with venting hole