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

System Hardware

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

I/O Interface

- ClockLAN

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)

Aluminum + SECC Panel / Stand / Wall

Isolation between chassis and power ground 40 W (Typical, no add-on card)

9 ~ 36 V_{DC} (e.g +24 V @ 5 A), ATX, AT/ATX power Jumper selection and BIOS AT simulation (support system reboot

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

Fanless with no internal cabling

Built-in Advantech DiagAnywhere agent on Windows CE/XPe

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

Two PCI V2.2 slots (UNO-3082)

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 slots should be less than 40W)

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

AC 97, Line Out

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

support for RAID 0 and RAID 1 One external SATA 2.0 (does not support hot swap)

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

Programmable 256 level timer interval, from 1~255 sec

Battery-backup RTC for time and date 2 x 10/100/1000 Base-T RJ-45 ports (Intel 82574L, supports Wake on LAN, Teaming, built-in boot ROM, and IEEE1588 hardware support)

- Serial Ports
- Serial Speed
- **USB Ports** IEEE 1394 (Firewire)
- Optional I/Ò
- Digital Input Wet contact: Dry contact:

isolation and ESD protect Opto-Isolator Response:

Digital Output

 $2 \times RS$ -232/422/485 with DB9 connectors, automatic RS-485 data flow control, 2 x RS-232 (optional)

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

2 x type B (Bilingual)

PS/2 KB/MS, 2 x COM-232 (with packing), 2 x USB 2.0, LPT 4-ch. contact DI0 ~ DI3

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

4 ch. D00 ~ D03

1,500 V_{DC} isolation, 200 mA max/channel sink current Keeps output status after system hot reset

Open collector to 40V (200mA maximum sink current load) and 3 kHz speed

Timer/Counter

- **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

Ordering Information

- 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

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