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 Intel 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 10/100/1000Base-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

UNO-3082 and UNO-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. They are also equipped with two IEEE 1394b bilingual interfaces which allow users to connect their own devices for machine vision application. Critical data can be saved on the battery backup SRAM. They 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
- Display
- Watchdog Timer

I/O Interface

- ClockLAN
- Serial Ports

- CE, FCC class A, UL, CCC UNO-3082: 157 x 238 x 177 mm (6.2"x 9.3"x 7") UNO-3084: 195 x 238 x 177 mm (7.6"x 9.3"x 7")
- Aluminum + SECC Wallmount, Stand, Panel
- Isolation between chassis and power ground
- 40 W (Typical, no add-on card) 9 ~ 36 V_{IO} (e.g +24 V @ 5 A), ATX, AT/ATX power Jumper selection and BIOS AT simulation (support system reboot
- automatically after power recovery) UNO-3082: 4.5 kg
- UNO-3084: 5.0 kg
- 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/4GB DDRII SDRAM built-in

 - Two PCI V2.2 slots (UNO-3082) One PCIe plus three PCI 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

 - I Tax 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)
 - 2 × RS-232/422/485 with DB9 connectors, automatic RS-485 data flow control, 2 x RS-232 (optional)

- 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
- RS-232 Speed: 50 bps \sim 115.2 kbps, RS-422/485 Speed: 300 bps \sim 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 ~ 3 Vpc; Logic 1: ±10 ~ 50 Vpc
- Logic 0. -5 ~ 5 voc; Logic 1: ±10 ~ 50 voc 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_{pc} 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 Pulse Output**
- DI1 & DI3 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 55° C (14 ~ 131° F) -20 ~ 80° C (-4 ~ 176° F) 95% @ 40° C (non-condensing)
 - IEC 60068-2-27
 - CompactFlash: 50 G @ wall mount, half sine, 11 ms
 - 20 G @ wall mount, half sine, 11 ms
 - IEC 60068-2-64 (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-D23F
- UNO-3082-D24E UNO-3084-D24F
- Accessories
- PCLS-DIAGAW10 1960048293N000
- 1960045707N010
- 9663308401E
- 9663308402E 9663308403E
- Core 2 Duo, 2 x PCI Automation Computer
- Core 2 Duo, 3 x PCI/1 x PCIe Automation Computer Core 2 Duo, 4G RAM, 2 x PCI Automation Computer
- Core 2 Duo, 4G RAM, 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 USB x 2 for UNO-3000 Series
- LPT x 1 for UNO-3000 Series RS232 COM port x 2 and PS2 x 1 for UNO-3000 Series