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 x 1 board 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

 Enclosure Mounting Industrial Grounding Power Consumption Power Requirement Weight	CE, FCC class A, UL, CCC 157 x 238 x 177 mm ($6.2^{\circ}x 9.3^{\circ}x 7^{\circ}$) (UNO-3082) 195 x 238 x 177 mm ($7.6^{\circ}x 9.3^{\circ}x 7^{\circ}$) (UNO-3084) Aluminum + SECC Panel / Stand / Wall Isolation between chassis and power ground 40 W (Typical, no add-on card) 9 ~ 36 V ₀ c (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	 Ser USE IEEI Opt Dig Wet Dry isola Opto Dig
 ystem Hardware CPU Memory Battery Backup SRAM Expansion Slots PCI Slot Power Indicators Audio Storage Display Watchdog Timer	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 PCIex1 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 CF: 1x internal type I/ II CompactFlash slot 1x external type I/ II CompactFlash slot 1x external type I/ II CompactFlash slot 1x external type I/ II CompactFlash slot 1DD: 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-0 + Dual VGA cloned displays Programmable 256 level timer interval, from 1~255 sec	Time - Cou - Puls - Can - Dov - Tim Envir - Ope - Stou - Hun - Sho - Vibu
 -		Orc

Battery-backup RTC for time and date

- Serial Ports rial Speed
 - B Ports
 - E 1394 (Firewire)
 - tional I/Ò
 - gital Input t contact. contact: lation and ESD protect to-Isolator Response:
 - gital Output

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 DIO ~ DI3 Logic 0: -3 ~ 3 V_{DC} ; Logic 1: ±10 ~ 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: DI0 ~ 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

- D02 & D03
- wn counting, preset counting value
- 100 kHz, 10 kHz, 1 kHz, 100 Hz ner Time Base

ronment

- ock Protection

dering Information

- UNO-3082-D23E UNO-3084-D23E
- PCLS-DIAGAW10

Core 2 Duo, 2 x PCI Automation Computer Core 2 Duo, 3 x PCI/1 x PCIe Automation Computer Advantech Remote Monitoring & Diagnosis Utility

. 2 × RS-232/ 422/ 485 with DB9 connectors, automatic LISB DAC PC-based Controller RS-485 Ethernet I/C Building Automation .

Automation Software

Touch Panel PC

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Fanless Box PC

Ethernet Switch

er/Counter unter Source DI1 & DI3

- - orage Temperature
- - 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

n be cascaded as one 32-bit counter/timer

lse Output

- (IEC 60068-2-2, 100% CPU/ I/O loading) erating Temperature
 - -10 ~ 55° C (14 ~ 131° F) -20 ~ 80° C (-4 ~ 176° F)
- 95% @ 40° C (non-condensing) miditv
- pration Protection

- LAN
- 2 x 10/100/1000 Base-T RJ-45 ports (Intel 82574L supports Wake on LAN, Teaming, built-in boot ROM, and IEE1588 hardware support)

- I/O Interface
- Clock