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
- 2 x RS-232/422/485 ports with automatic flow control
- 2 x 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
- 1 x internal USB for dongle and flash drive

Introduction

The 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

•	Certification Dimensions (W x H x D)	CE, FCC class A, UL, CCC UNO-3082: 157 x 238 x 177 mm (6.2" x 9.3" x 7.0") UNO-3084: 195 x 238 x 177 mm (7.6" x 9.3" x 7.0")
	Enclosure Mounting Industrial Grounding Power Consumption Power Requirement	Aluminum + SECC Wallmount, Stand, Panel 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)
-	Weight OS Support	automatically after power recovery) TI UNO-3082: 4.5 kg / UNO-3084: 5.0 kg WES, Windows XP Embedded, Windows Vista/XP, Windows 7, Linux, QNX
•	System Design Remote Management	Fanless with no internal cabling Built-in Advantech DiagAnywhere agent on Windows CE/XPe
S	ystem Hardware	E
•	CPU	Intel Core 2 Duo L7500 1.6 GHz
•	Memory	2 GB/4 GB DDRII SDRAM built-in
	Battery Backup SRAM	512 KB
	Expansion Slots	UNO-3082: 2 x PCI V2.2 slots UNO-3084: 1 x PCle plus 3 x PCI v2.2 slots
•	PCI Slot Power	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)
•	Indicators	LEDs for Power, Standby, HDD, SRAM battery, Rx/Tx for COM ports
•	Audio	AC 97, Line Out
•	Storage	CF: 1 x internal type I/ II CompactFlash slot 1 x external type I/ II CompactFlash slot HDD: 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)
•	Display	Dual DVI-D independent, or DVI-D + Dual VGA cloned displays
•	Watchdog Timer	Programmable 256 level timer interval, from 1~255 sec
/	0 Interface	A
•	LAN	2 x 10/100/1000Base-T RJ-45 ports (Intel 82574L, supports Wake on LAN, Teaming, built-in boot ROM, and IEEE1588 hardware support)
•	Serial Ports	2 x RS-232/422/485 with DB9 connectors, automatic RS-485 data

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

USB Ports . IEEE 1394 (Firewire) Optional I/Ò Digital Input Wet contact: Dry contact: isolation and ESD protect Opto-Isolator Response: Digital Output

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 VDC; Logic 1: $\pm 10 \sim 50$ VDC 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

imer/Counter **Counter Source**

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

DI1 & DI3

nvironment

- **Operating Temperature** Storage Temperature
- Humidity Shock Protection

Vibration Protection

95% @ 40°C (non-condensing) IEC 60068-2-27 CompactFlash: 50 G @ wall mount, half sine, 11 ms HDD: 20 G @ wall mount, half sine, 11 ms IEC 60068-2-64 (Bandom 1 Oct /min_1hr/axis.) CompactFlash®: 2 Grms @ 5 ~ 500 Hz,

Intel Core 2 Duo, 2 G RAM, 2 x PCI Automation Computer

Intel Core 2 Duo, 2 G RAM, 3 x PCI+/ 1 x PCIe Automation

Intel Core 2 Duo, 4 G RAM, 2 x PCI Automation Computer

Intel Core 2 Duo, 4 G RAM, 3 x PCI+/ 1 x PCIe Automation

-10 ~ 55°C (14 ~ 131°F)

-20 ~ 80°C (-4 ~ 176°F)

HDD: 1 Grms @ 5 ~ 500 Hz

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

Ordering Information

- UNO-3082-D23E UNO-3084-D23E
- 11NO-3082-D24F
- UNO-3084-D24F

ccessories

PCLS-DIAGAW10 Advantech Remote Monitoring & Diagnosis Utility 1960048293N000 Top cover of UNO-3082 with venting hole 1960045707N010 Top cover of UNO-3084 with venting hole 9663308401E USB x 2 for UNO-3000 Series LPT x 1 for UNO-3000 Series

Computer

Computer

- 9663308402F 9663308403E
- RS232 COM port x 2 and PS2 x 1 for UNO-3000 Series

- Serial Speed