

Встраиваемые промышленные компьютеры автоматизации серии UNO-3000

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

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UNO-3072A

UNO-3074A

Intel® Atom™ D510 Automation Computer
with 2 x PCI, 2 x GbE, and FireWire

Intel® Atom™ D510 Automation Computer
with 4 x PCI, 2 x GbE, and FireWire



Features

- Onboard Intel Atom D510 1.66 GHz processor
- 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 four PCI expansions
- 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-3072A and UNO-3074A are Dual Core Atom-based Embedded Automation Computers with up to four PCI slots that provide an excellent performance to power consumption ratio. They are also equipped with two IEEE 1394b bilingual interfaces which allow users to connect their own devices for machine vision. Critical data can be saved on the battery backup SRAM. They also support two HDD bays with RAID 0/1. The design with an open platform can fulfill demanding requirements from the industrial field, especially for machine vision or motion controllers.

Specifications

General

- Certification** CE, FCC class A, UL, CCC
- Dimensions (W x H x D)** UNO-3072A: 140 x 238 x 177 mm (5.5" x 9.3" x 7.0")
UNO-3074A: 181 x 238 x 177 mm (7.5" x 9.3" x 7.0")
- Enclosure** Aluminum + SECC
- Mounting** Wallmount, Stand, Panel
- Industrial Grounding** Isolation between chassis and power ground
- Power Consumption** 25 W (Typical, no add-on card)
- Power Requirement** 9 ~ 36 V_{DC} (e.g. +24 V @ 3A), ATX, AT/ATX power Jumper selection and BIOS AT simulation (support system reboot automatically after power recovery)
UNO-3072A: 4.5 kg / UNO-3074A: 5.0 kg
- Weight** WES2009, Windows Vista/XP, Windows 7, Linux, QNX
- OS Support** Fanless with no internal cabling
- System Design** Built-in Advantech DiagAnywhere agent on Windows CE/WES2009
- Remote Management**

System Hardware

- CPU** Intel Atom D510 1.66 GHz
- Memory** 2 GB DDRII SDRAM built-in
- Battery Backup SRAM** 512 KB
- Expansion Slots** UNO-3072A: 2 x PCI V2.2 slots
UNO-3074A: 4 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** DB15 VGA connector, 1600 x 1200 @ 85 Hz
- Watchdog Timer** Programmable 256 level timer interval, from 1~255 sec

I/O Interface

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

- Serial Speed** RS-232 Speed: 50 bps ~ 115.2 kbps
RS-422/485 Speed: 300 bps ~ 921.6 kbps (Max)
- USB Ports** 5 x USB 2.0 (one internal), 2 x USB 2.0 pin header
- IEEE 1394 (Firewire)** 2 x type B (Bilingual)
- Optional I/O** PS/2 KB/MS, 2 x COM-232, 2 x USB 2.0, LPT
- Digital Input** 4-ch. contact DIO ~ DI3
Wet contact: Logic 0: -3 ~ 3 V_{DC}; Logic 1: ±10 ~ 50 V_{DC}
Dry contact: Logic 0: open; Logic 1: close to GND
- Digital Output** 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** DO2 & DO3
- 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** (IEC 60068-2-2, 100% CPU/ I/O loading)
-10 ~ 60°C (14 ~ 140°F)
- Storage Temperature** -20 ~ 80°C (-4 ~ 176°F)
- Humidity** 95% @ 40°C (non-condensing)
- Shock Protection** 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 (Random 1 Oct./min, 1hr/axis.)
CompactFlash®: 2 Grms @ 5 ~ 500 Hz,
HDD: 1 Grms @ 5 ~ 500 Hz
- Vibration Protection**

Ordering Information

- UNO-3072A-A33E** Intel Atom D510 1.66 GHz, 2 GB RAM Automation Computer w/ 2 x PCI
- UNO-3074A-A33E** Intel Atom D510 1.66 GHz, 2 GB RAM Automation Computer w/ 4 x PCI

Accessories

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

UNO-3072L

Intel® Celeron® M Automation Computer with 2 x PCI Slots



UNO-3072L-C22BE

UNO-3072L-C11BE



Specifications

General

- **Certifications** CE, FCC class A, UL, CCC
- **Dimensions (W x D x H)** 140 x 237 x 179 mm (5.5" x 9.3" x 7.0", for UNO-3072L-C11BE)
153 x 237 x 179 mm (6" x 9.3" x 7.0", for UNO-3072L-C22BE)
- **Enclosure** Aluminum
- **Mounting (Option)** Wall/Panel/Stand
- **Power Consumption** 24 W (typical, no PCI cards)
- **Power Requirements** 9 ~ 36 V_{DC} (e.g. +24 V @ 2 A) (Max. 5A), AT (16 ~ 36 V_{DC} for 12 V PCI boards)
- **Weight (Net)** 4.2 kg/6 kg (UNO-3072L-C11BE/UNO-3072L-C22BE)
- **OS Support** WES Windows XP embedded, Windows 2000/XP, Windows CE 5.0/6.0, Linux, QNX
- **System Design** Fanless with no internal cabling
- **Remote Management** Built-in Advantech DiagAnywhere agent on Windows CE/XPe

System Hardware

- **CPU** Celeron M 1.0/1.5 GHz
- **Memory** 512 MB/1 GB DDR SDRAM built-in
- **Expansion Slots** 2 x PCI V 2.2
(Note: The heat dissipation in the PCI cards may affect thermal performance)
- **Indicators** LEDs for power, power input 1, power input 2, power fault, IDE, diagnosis, Programmable buzzer
- **Keyboard/Mouse** 1 x PS/2
- **PCI Slot Power** 12 V @ 2.5 A, -12 V @ 0.8 A, +5 V @ 4 A, +3.3 V @ 3 A
(total combined power consumption on the PCI slots should be less than 30W)
- **Storage**
- **SSD** 1 x internal type I/II CompactFlash® slot
HDD Built-in one 2.5" SATA/IDE HDD Bracket
- **Display** DB15 VGA connector, support to CRT mode:
1600 x 1200 @ 85 Hz
- **Watchdog Timer** Programmable 256 levels timer interval, from 1 to 255 sec

Features

- Onboard Celeron® M processor
- Two RS-232 & two RS-232/422/485 ports with RS-485 automatic flow control
- Two 10/100Base-T RJ-45 ports and four USB 2.0 ports
- Two PCI-bus expansion slots for versatile applications
- Industrial proven design; anti-shock up to 50 G, anti-vibration up to 2 G
- 4-ch isolated DI, 4-ch isolated DO with timer, counter and interrupt handling
- Supports dual power inputs
- Windows® 2000/XP and Embedded Linux support
- Windows XP (SP2) Embedded Ready Platforms with write protection (EWF)
- Onboard system & I/O LED indicators
- Supports Boot from LAN function
- Fanless design with no internal cabling
- Isolation between chassis and power ground

I/O Interface

- **Clock** Battery-backup RTC for time and date
- **LAN** 2 x 10/100Base-T RJ-45 ports (Built-in boot ROM in flash BIOS)
- **Serial Ports** 2 x RS-232, 2 x RS-232/422/485 with DB9 connectors
Automatic RS-485 data flow control
- **Serial Port Speed** RS-232: 50 bps ~ 115.2 kbps
RS-422/485: 50 bps ~ 921.6 kbps (Max.)
- **USB Ports** 4 x USB, USB EHCI, Rev. 2.0 compliant
- **Digital Inputs (4-ch. wet contact DI0 ~ DI3)**
 - 2,000 V_{DC} isolation
 - 50 ~ 70 V_{DC} over-voltage protection
 - ±50 V_{DC} input range and 10 kHz speed
 - Interrupt handling speed: 10 kHz
- **Digital Outputs (4 ch. DO0 ~ DO3)**
 - 2,000 V_{DC} isolation and 200 mA max/channel sink current
 - Keep output status after system hot reset
 - 0 ~ 40 V_{DC} output range and 10 kHz speed
- **Counters/Timers (2 x 16-bit)**
 - Counter source: DI1 & DI3, Pulse output: DO2 & DO3
 - 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

- **Humidity** 95% @ 40° C (non-condensing)
- **Operating Temperature (with CF card)** (IEC 60068-2-2, 100% CPU/ I/O loading)
UNO-3072L-C22BE: -20 ~ 55° C (-4 ~ 131° F)
UNO-3072L-C11BE: -20 ~ 60° C (-4 ~ 140° F)
- **Shock Protection** IEC 68 2-27
CompactFlash: 50 G @ wall mount, half sine, 11 ms
HDD: 20 G @ wall mount, half sine, 11ms
- **Vibration Protection** 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-3072L-C11BE** Celeron M 1.0 GHz, 512 MB Automation Computer
- **UNO-3072L-C22BE** Celeron M 1.5 GHz, 1 GB Automation Computer
- **PCLS-DIAGAW10** Advantech Remote Monitoring & Diagnosis Utility

UNO-3072LA

Intel® Atom™ N270 Automation
Computer with 2 x PCI, 2 x GbE, DVI



Features

- Onboard Intel Atom N270 1.6 GHz processor
- 2 x RS-232/422/485 ports with automatic flow control
- 2 x 10/100/1000Base-T RJ-45 ports with teaming function support
- 2 x PCI slots for versatile applications
- Windows® WES 2009, WES 7 ready solution and Embedded Linux
- Onboard system & I/O LED indicators
- Supports wake on LAN and boot from LAN function
- Supports audio Line-out function
- Fanless design with no internal cables
- Isolation between chassis and power ground
- AT/ATX power mode by jumper selection
- Front-accessible I/O design
- Wide operating temperature from -10 ~ 60°C
- One internal USB for dongle and flash drive

Introduction

The UNO-3072LA is an Atom-based Embedded Automation Computer with two PCI slots that provides excellent power consumption capabilities. The Gigabit LAN supports the teaming function with fault tolerance, link aggregation, and load balancing. Different from general industrial PCs, the UNO-3072LA is more compact and reliable with a fanless and cableless design. It is designed with an open platform which can fulfill any demanding requirement from the industrial field, and it is an ideal solution for industrial automation and control. The UNO-3072LA supports Windows XP Embedded OS, which offers a pre-configured image with optimized onboard device drivers. Windows XP Embedded delivers the power of Windows operating system in componentized form.

Specifications

General

- **Certification** CE, FCC class A, UL, CCC
- **Dimensions (W x H x D)** 140 x 238 x 177 mm (5.5" x 9.3" x 7.0")
- **Enclosure** Aluminum + SECC
- **Mounting** Wallmount, Stand, Panel
- **Industrial Grounding** Isolation between chassis and power ground
- **Power Consumption** 20 W (Typical)
- **Power Requirement** 9 ~ 36 V_{DC} (e.g. +24 V @ 2 A) (Min. 48W), ATX, AT/ATX power mode by Jumper selection and BIOS AT simulation (support system reboot automatically after power recovery)
- **Weight** 4.5 kg
- **OS Support** WES, Windows XP Embedded, Windows Vista/XP, Windows 7, Windows CE 6.0, Linux, QNX
- **System Design** Fanless with no internal cabling
- **Remote Management** Built-in Advantech DiagAnywhere agent on Windows CE/XPe

System Hardware

- **CPU** Intel Atom N270 1.6 GHz
- **Memory** 1 GB/2 GB DDRII SDRAM built-in
- **Expansion Slots** 2 x PCI V2.2 slots (Note: The heat dissipation from the PCI cards may affect thermal performance)
- **PCI Slot Power** 12 V @ 2A, -12V @ 0.5 A, +5 V @ 4 A, +3.3 V @ 4 A (total combined power consumption on the PCI slots should be less than 20W)
- **Indicators** LEDs for Power, Standby, HDD, Rx/Tx for COM ports (can be used as programmable LED)
- **Audio** AC 97, Line Out
- **Storage**
 - CF: 1 x internal type I/ II CompactFlash slot
 - HDD: 1 x external type I/ II CompactFlash slot
 - Built-in one 2.5" SATA HDD/SSD bracket
 - 1x external SATA 2.0
- **Display** Single DVI-I display (DVI-D + VGA independent)
- **Watchdog Timer** Programmable 256 level timer interval, from 1~255 sec

I/O Interface

- **Clock** Battery-backup RTC for time and date
- **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 flow control, 2 x RS-232 (optional)
- **Serial Speed** RS-232 Speed: 50 bps ~ 115.2 kbps, RS-422/485 Speed: 300 bps ~ 921.6 kbps (Max)
- **USB Ports** 5 x USB 2.0 (one internal), 2 x USB 2.0 pin header
- **Optional I/O** PS/2 KB/MS, 2 x COM-232, 2 x USB 2.0, LPT

Environment

- **Operating Temperature** (IEC 60068-2-2, 100% CPU/ I/O loading)
 - 10 ~ 60°C (14 ~ 140°F)
 - 20 ~ 70°C (-4 ~ 158°F) (Optional and no PCI card)
 - 40 ~ 80°C (-40 ~ 176°F)
- **Storage Temperature** 95% @ 40°C (non-condensing)
- **Humidity** IEC 60068-2-27
- **Shock Protection** CompactFlash: 50 G @ wall mount, half sine, 11 ms
HDD: 20 G @ wall mount, half sine, 11 ms
- **Vibration Protection** IIEC 60068-2-64 (Random 1 Oct./min, 1hr/axis.)
CompactFlash®: 2 Grms @ 5 ~ 500 Hz,
HDD: 1 Grms @ 5 ~ 500 Hz

Ordering Information

- **UNO-3072LA-A12E** Intel Atom N270 1.6 GHz, 1 GB RAM Automation Computer
- **UNO-3072LA-A13E** Intel Atom N270 1.6 GHz, 2 GB RAM Automation Computer

Accessories

- **PCLS-DIAGAW10** Advantech Remote Monitoring & Diagnosis Utility
- **9663308401E** USB x 2 for UNO-3000 Series
- **9663308402E** LPT x 1 for UNO-3000 Series
- **9663308403E** RS232 COM port x 2 and PS2 x 1 for UNO-3000 Series

UNO-3083G/3085G UNO-3073G/3075G UNO-3073GL

Intel® Core i7/Celeron 800 series
Automation Computers with 3/5 PCI(e)
expansion slots, 2 mPCIe slots and
2 CFAST sockets



Features

- Onboard Intel Core i7-3555LE/i7-2655LE/Celeron 847E/807UE, 2.2GHz/1.1GHz/1.0GHz
- 2 x RS-232/422/485 ports with automatic flow control and 2 x RS-232 pin head reserved
- 2 x 10/100/1000Base-T Ethernet
- DVI-I, HDMI support 2 x independent displays
- Audio with Mic in, Line out
- 9 x USB ports (4 x USB 3.0, 1 x internal USB for dongle and flash drive)
- Windows® WES 2009, WES 7 solution
- Dual power input for power redundancy
- Onboard system diagnosis LED indicators
- Supports wake on LAN and boot from LAN function
- Isolation between chassis and power ground
- Front accessible dual HDD/SSD with onboard RAID 0/1 support

Introduction

The UNO-3083G/3085G/3073G/3075G/3073GL are configured with high-performance Intel® Core i7/Celeron 800 series processors and QM77/QM67/HM65 PCH, which supports two displays, eight USB ports, two Mini PCIe sockets, two CFAST Sockets and up to five expansion slots. They also feature two power inputs for redundancy and relay function for alarm handling, furthermore, two friendly front accessible HDD/SSD bays to support RAID 0/1. Two Gigabit LANs support teaming function with fault tolerance, link aggregation and load balance features. The built-in intelligent BIOS to diagnose system status immediately via relay function or LED indication.

Specifications

General

- Certification** CE, UL, CCC, FCC, BSMI
- Dimensions (W x D x H)** UNO-3083G/3073G/GL: 148 x 238 x 177 mm (5.8" x 9.3" x 7.0")
UNO-3085G/3075G: 193 x 238 x 177 mm (7.6" x 9.3" x 7.0")
- Enclosure** Aluminium
- Mounting** Wallmount, Stand mount, Panel mount
- Power Consumption** UNO-3083G/3085G: 45W (Typical)
UNO-3073G/3075G: 35W (Typical)
UNO-3073GL: 25W (Typical)
- Power Requirements** 12V ±20%/ 24V ±20% (e.g. +24 V @ 5 A), AT/ATX power Jumper selection and BIOS AT simulation (support system reboot automatically after power recovery)
- Weight** UNO-3083G/3073G/3073GL: 4.5kg
UNO-3085G/3075G: 5.0kg
- OS Support** Windows XP, Windows7/8, WES7, WES-2009, Linux
- System Design** Fanless with no internal cabling (except COM1/COM2)
- Remote Management** Built-in Advantech DiagAnywhere agent on WES2009/WES7

System Hardware

- CPU** UNO-3083G/3085G: Intel Core i7-3555LE 2.5GHz/i7-2655LE 2.2GHz
UNO-3073G/3075G: Intel Celeron 847E 1.1GHz
UNO-3073GL: Intel Celeron 807UE 1.0GHz
- Memory** 4G DDR3 SDRAM built-in
(UNO-3083G/3085G/3073G/3075G can support up to 16G RAM by project)
- Indicators** LEDs for Power, Battery, LAN (Active, Status), Serial communication (Tx, Rx) and User Defined
- Storage** CF
HDD
2 x CFAST slot
Two built-in 2.5" SATA HDD brackets with RAID 0/1 (except UNO-3073GL)
- Display** 1 x DVI-I, 1 x HDMI (2 x independent displays)
- Audio** Mic in, Line Out
- Watchdog Timer** Programmable 256 levels timer interval, from 1 to 255 sec
- Mini PCIe Expansion** 2 x Mini PCIe slots with 2 x SIM cards
- PCI (e) Expansion** UNO-3083G/3073G: 1x PCIe16 slot and 2x PCI slots
UNO-3085G: 2x PCIe8 slots and 3x PCI slots
UNO-3075G: 1x PCIe16 slot and 4x PCI slots
UNO-3073GL: 1x PCIe1 slot and 2x PCI slots
- PCI Slot Power** 12V @ 3 A, -12V @ 0.8 A, +5V @ 6 A, +3.3V @ 6 A (total combined power consumption on the PCI slots should be less than 40W)

I/O Interface

- Serial Ports** 2 x RS-232/422/485 with DB9 connectors, automatic RS-485 data flow control, 2 x RS-232 (optional)
- Serial Port Speed** RS-232: 50 ~ 115.2 kbps
RS-422/485: 50 ~ 115.2 kbps (Max.)
- LAN** 2 x 10/100/1000Base-T RJ-45 ports
Supports AMT (UNO-3083G/3085G only), wake on LAN and built-in boot ROM in flash BIOS
- USB Ports** 9 x USB (one internal, and 4x USB3.0 support on UNO-3083G-D64E/UNO-3085G-D64E)

Environment

- Humidity** 95% @ 40°C (non-condensing)
- Operating Temperature** -10 ~ 60°C (14 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow (Industry SSD)
- Shock Protection** 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 (Random 1 Oct./min, 1hr/axis.)
- Vibration Protection** CompactFlash: 2 Grms @ 5 ~ 500 Hz,
HDD: 0.5Grms@5-500Hz

Ordering Information

- UNO-3083G-D64E** Intel Core i7-3555LE 2.5GHz, 4GB RAM, 1 x PCIe16 + 2 x PCI expansion slots
- UNO-3085G-D64E** Intel Core i7-3555LE 2.5GHz, 4GB RAM, 2 x PCIe8 + 3 x PCI expansion slots
- UNO-3083G-D44E** Intel Core i7-2655LE 2.2 GHz, 4 GB RAM, 1 x PCIe16 + 2 x PCI expansion slots
- UNO-3085G-D44E** Intel Core i7-2655LE 2.2 GHz, 4 GB RAM, 2 x PCIe8 + 3 x PCI expansion slots
- UNO-3073G-C54E** Intel Celeron 847E 1.1 GHz, 4 GB RAM, 1 x PCIe16 + 2 x PCI expansion slots
- UNO-3075G-C54E** Intel Celeron 847E 1.1GHz, 4GB RAM, 1 x PCIe16 + 4 x PCI expansion slots
- UNO-3073GL-C44E** Intel Celeron 807UE 1.0 GHz, 4 GB RAM, 1 x PCIe1 + 2 x PCI expansion slots

Accessories

- UNO-SM83-AE** Stand mount kit for UNO-3000G series
- UNO-PM83-AE** Panel mount/wall mount kit for UNO-3000G series
- UNO-3000EM-AE** Extra 2x RS-232 modules for UNO-3000G series
- 1757002161** 150W AC to DC power adapter (Commercial Grade)
- 1700001524** Power cable 3-pin US type 1.8 M (Commercial Grade)
- 170203183C** Power cable 3-pin EU type 1.8 M (Commercial Grade)
- 170203180A** Power cable 3-pin UK type 1.8 M (Commercial Grade)

Embedded OS

- 2070012746** Image WES2009 MUI. v3.34 B001 for UNO-3073GL/75G
- 2070012529** Image WS7P MUI. V4.12 B001 for UNO-3073G/3075G
- 2070012254** Image WS7P MUI. for UNO-3083G/3085G
- 2070012833** Image WS7P X64 MUI. for UNO-3083G/3085

Optional Expansion Type by Project Support

Model	Optional Expansion Type
UNO-3083G	2x PCIe8 slots and 1x PCI slot
UNO-3085G	1x PCIe16 slot and 4x PCI slots
UNO-3073G	2x PCIe8 slots and 1x PCI slot
UNO-3075G	2x PCIe8 slots and 3x PCI slots
UNO-3073GL	2x PCIe1 slots and 1x PCI slot
UNO-3073GL (same dimensions as UNO-3085G)	2x PCIe1 slots and 3x PCI slots

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** CE, FCC class A, UL, CCC
- Dimensions (W x H x D)** 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** Aluminum + SECC
- Mounting** Wallmount, Stand, Panel
- Industrial Grounding** Isolation between chassis and power ground
- Power Consumption** 40 W (Typical, no add-on card)
- Power Requirement** 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** UNO-3082: 4.5 kg / UNO-3084: 5.0 kg
- OS Support** WES, Windows XP Embedded, Windows Vista/XP
Windows 7, Linux, QNX
- System Design** Fanless with no internal cabling
- Remote Management** Built-in Advantech DiagAnywhere agent on Windows CE/XPe

System Hardware

- 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 PCIe 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

I/O Interface

- 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 flow control, 2 x RS-232 (optional)
- Serial Speed** RS-232 Speed: 50 bps ~ 115.2 kbps.
RS-422/485 Speed: 300 bps ~ 921.6 kbps (Max)

- USB Ports** 5 x USB 2.0 (one internal), 2 x USB 2.0 pin header
- IEEE 1394 (Firewire)** 2 x type B (Bilingual)
- Optional I/O** PS/2 KB/MS, 2 x COM-232 (with packing), 2 x USB 2.0, LPT
- Digital Input** 4-ch. contact DI0 ~ DI3
Wet contact: Logic 0: -3 ~ 3 V_{DC}; Logic 1: ±10 ~ 50 V_{DC}
Dry contact: Logic 0: open; Logic 1: close to GND
isolation and ESD protect
Opto-Isolator Response: 1500 V_{DC}, 50~70 V_{DC} over voltage protection
25µs- Interrupt capable channel: DI0 ~ DI3
- Digital Output** 4 ch. DO0 ~ DO3
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** DO2 & DO3
- 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** (IEC 60068-2-2, 100% CPU/ I/O loading)
-10 ~ 55°C (14 ~ 131°F)
- Storage Temperature** -20 ~ 80°C (-4 ~ 176°F)
- Humidity** 95% @ 40°C (non-condensing)
- Shock Protection** 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 (Random 1 Oct./min, 1hr/axis.)
CompactFlash®: 2 Grms @ 5 ~ 500 Hz,
HDD: 1 Grms @ 5 ~ 500 Hz
- Vibration Protection**

Ordering Information

- UNO-3082-D23E** Intel Core 2 Duo, 2 G RAM, 2 x PCI Automation Computer
- UNO-3084-D23E** Intel Core 2 Duo, 2 G RAM, 3 x PCI+/ 1 x PCIe Automation Computer
- UNO-3082-D24E** Intel Core 2 Duo, 4 G RAM, 2 x PCI Automation Computer
- UNO-3084-D24E** Intel Core 2 Duo, 4 G RAM, 3 x PCI+/ 1 x PCIe Automation Computer

Accessories

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

По вопросам продаж и поддержки обращайтесь:

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