

UNO-3072LA

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

NEW



Features

- Onboard Atom N270 1.6 GHz processor
- Two RS-232/422/485 ports with automatic flow control
- Two 10/100/1000 Base-T RJ-45 ports with teaming function support
- Two PCI slots for versatile applications
- Windows® 2000/XP/Vista and Embedded Linux support
- 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
- Programmable LEDs
- Front-accessible I/O design
- Wide operating temperature from -10 ~ 60° C
- One internal USB for dongle and flash drive

Introduction

Advantech's 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, UNO-3072LA is more compact and reliable with a fanless and cableless design. It was 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. 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 the Windows operating system in componentized form.

Specifications

General

- Certifications** 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")
- Enclosure** Aluminum + SECC
- Mounting** Panel / Stand / Wall
- 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. 48 W, 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** 1GB/2GB DDRII SDRAM built-in
- Expansion Slots** Two 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, SRAM battery, Rx/Tx for COM ports (can be used as programmable LED)
- Audio** AC 97, Line Out
- Storage**
 - CF: 1x internal type I/ II CompactFlash slot
 - HDD: 1x 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 10/100/1000 Base-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** -40 ~ 80° C (-40 ~ 176° F)
- Humidity** 95% @ 40° C (non-condensing)
- Shock Protection** IEC 68 2-27
CompactFlash: 50 G @ wall mount, half sine, 11 ms
HDD: 20 G @ wall mount, half sine, 11 ms
- 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-3072LA-A12E** Intel Atom 1.6 GHz, 1GB RAM Automation Computer
- UNO-3072LA-A13E** Intel Atom 1.6 GHz, 2GB RAM Automation Computer
- PCLS-DIAGAW10** Advantech Remote Monitoring & Diagnosis Utility