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 $9 \sim 36 \text{ V}_{DC}$ (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)

LEDs for Power, Standby, HDD, Rx/Tx for COM ports

(can be used as programmable LED)

Audio
 AC 97, Line Out

Storage

Indicators

CF: 1 x internal type I/ II CompactFlash slot 1 x external type I/ II CompactFlash slot HDD: 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)

 $-20 \sim 70$ °C ($-4 \sim 158$ °F) (Optional and no PCI card)

Storage Temperature
 Humidity
 40 ~ 80°C (-40 ~ 176°F)
 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

• 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

AD\ANTECH Embedded Automation Computers

All product specifications are subject to change without notice