UNO-2173A/AF

Intel® Atom™ N270 Automation **Computers with 2 x LAN,** 3 x COM, Mini PCle





- Onboard Intel Atom N270 1.6 GHz processor
- 2 x 10/100/1000Base-T RJ-45 port
- 4 x USB 2.0 ports
- Windows® CE 5.0 & 6.0, Windows WES2009, WES7, and Linux ready solution
- Onboard system status LED indicators
- Front-accessible CF slot
- Supports Boot from LAN function
- 1 x Mini PCle slot for WLAN card
- Fanless design with no internal cabling
- Isolation between chassis and power ground
- Supports wide operating temperatures from -20 ~ 70°C
- IP40 ingress protection
- Windows 7 and Moblin supported













Introduction

The UNO-2173A/AF are Embedded Automation Computers equipped with Intel Atom N270 1.6 GHz CPUs, Gigabit Ethernet ports, rich I/O, and 1 x Mini PCIe socket. They also feature WLAN, 3G expansion and compatibility with Windows 7. Both products have Energy Star certification, IP40 anti-dust ingress protection and wide operating temperatures (-20 ~ 70°C), providing high performance and high versatility with low power consumption. The UNO-2173A/AF are economic new computing platforms for manufacturing executing systems, facility automation, in-vehicle, and industrial thin client applications.

Specifications

General

Energy Star, CE, FCC class A, UL, CCC Certification **Dimensions (W x D x H)** 255 x 152 x 59 mm (10" x 6.0" x 2.3")

Aluminum +SECC Enclosure DIN-rail, Wallmount, VESA Mounting

Industrial Grounding Isolation between chassis and power ground 15 W (Typical)

Power Consumption

Power Requirements 9 ~ 36 V_{DC} (e.g +24 V @ 1.5 A) (Min. 36 W), ATX Weight

OS Support Windows WES 2009, Windows XP, Windows 7, Windows CE 5.0 & 6.0, Linux, QNX, WES7 System Design Fanless design with no internal cabling

Remote Management Built-in Advantech DiagAnywhere agent on Windows CE / WES 2009 / WES 7

System Hardware

- CPU Intel Atom N270 1.6 GHz Memory 1 GB, 2 GB DDR2 SDRAM built-in

Indicators LEDs for Power, CF, LAN (Active, Status), Serial (Tx, Rx)

Keyboard/Mouse 1 x PS/2 Storage

CF: 1 x front-accessible type I/II CompactFlash® slot HDD: 1 x built-in 2.5" SATA HDD/SSD bracket DB15 VGA connector, 1600 x 1200 @ 85 Hz Display

LVDS with backlight control (UNO-2173AF) Watchdog Timer Programmable 256 levels timer interval, from 1 to 255

Expansion Slot 1 x Mini PCle

I/O Interface

LAN

 Serial Ports UNO-2173A: 2 x RS-232

UNO-2173AF: 2 x RS-232, 1 x RS-422/485

 Serial Port Speed 50 ~ 115.2 kbps

2 x 10/100/1000Base-T RJ-45 ports (Built-in boot ROM in flash BIOS) (One LAN port in UNO-2173A)

USB Ports 4 x USB 2.0 (2 ports on UNO-2173A) Audio 5.1 channel HD audio (Only for UNO-2173AF)

Environment

Humidity 95% @ 40°C (non-condensing)

Operating Temperature IEC 60068-2-2 with 100% CPU/ I/O loading

-20 ~ 70°C (-4 ~ 158°F)

Ingress Protection

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

IEC 60068-2-64 (Random 1 Oct./min, 1hr/axis.) CompactFlash: 5 Grms @ 5 ~ 500 Hz.

HDD: 1 Grms @ 5 ~ 500 Hz

Reserved Functions

Battery Backup SRAM* 1 MB

Printer Port* 1 x printer port pin head 1 x internal pin head

*Note: This function is optional for project request

Ordering Information

UNO-2173A-A12E Intel Atom N270 1.6 GHz, 1 GB RAM Computer

UNO-2173A-A13E Intel Atom N270 1.6 GHz. 2 GB RAM Computer

w/ front I/O UNO-2173AF-A12E Intel Atom N270 1.6 GHz. 1 GB RAM Computer UNO-2173AF-A13E Intel Atom N270 1.6 GHz, 2 GB RAM Computer

Accessories

UNO-FPM21-AE UNO-2000 series VESA mount kit EWM-W138H01E Mini PCle card for WLAN

1960032715N040 Rear panel of UNO-2173A for Antenna 1960032715N020 Rear panel of UNO-2173AF for Antenna

1750006043 SMA/I-PEX cable 15CM 1750002842 Wireless Antenna

PCLS-DIAGAW10 Advantech Remote Monitoring & Diagnosis Utility

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