UNO-2173A/AF

Intel® Atom™ Automation Computer with 2 x LAN, 3 x COM, Mini-PCle



Features

- Onboard Intel® Atom™ N270 1.6 GHz processor
- 2 x 10/100/1000 Base-T RJ-45 port
- 4 x USB 2.0 ports
- Windows® CE 5.0 & 6.0, Windows XP Embedded, 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° C to 70° C
- IP40 ingress protection
- Windows 7 and Moblin supported















Introduction

UNO-2173A and UNO-2173AF are Embedded Automation Computers equipped with Intel® Atom™ 1.6 GHz CPUs, Gigabit Ethernet ports, rich I/O, and 1 x Mini PCle socket. They also feature WLAN, 3G expansion and compatibility with Windows 7 and Moblin (Mobile Linux distributed by Intel). 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 and UNO-2173AF 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 Certifications **Dimensions (W x D x H)** 255 x 152 x 59 mm (10" x 6.0" x 2.3")

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

Industrial Grounding Isolation between chassis and power ground

Power Consumption

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

OS Support WES Windows XP Embedded, Windows XP, Windows 7, Windows CE 5.0 & 6.0, Linux, Moblin,

 System Design Fanless design with no internal cabling

 Remote Management Built-in Advantech DiagAnywhere agent on Windows CE / XPe

System Hardware

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

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

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 only) Watchdog Timer Programmable 256 levels timer interval, from 1 to 255

Expansion Slot 1 x Mini-PCle

I/O Interface

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 10/100/1000 Base-T RJ-45 port (Built-in boot LAN ROM in flash BIOS) (One LAN port in UNO-2173A) USB Ports 4 x USB 2.0 (2 ports on UNO-2173A only)

5.1 channel HD audio (UNO-2173AF only) Audio

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 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: 5 Grms @ 5 ~ 500 Hz. HDD: 1 Grms @ 5 ~ 500 Hz

Reserved Functions

Battery Backup SRAM* 1MB

Printer Port* 1 x printer port pin head 1x internal pin head *Note: This function is optional for project request

Ordering Information

UNO-2173A-A12E Atom 1.6 GHz, 1 GB RAM, Automation Computer w/

UNO-2173A-A13E Atom 1.6 GHz. 2 GB RAM. Automation Computer w/ front I/O

UNO-2173AF-A12E Atom 1.6 GHz. 1 GB RAM. Automation Computer UNO-2173AF-A13E Atom 1.6 GHz, 2 GB RAM, Automation Computer

Accessories

UNO-FPM21-AE UNO-2000 series VESA mount kit 968EMW0021 PCle mini-card for WLAN

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

1700001854 SMA/I-PEX cable 11CM 1750003222 5dBi Dipole Antenna

PCLS-DIAGAW10 Advantech Remote Monitoring & Diagnosis Utility

Self-service Terminals

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ADVANTECH