

# UNO-2173A/AF

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



## Features

- 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 PCIe 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

UNO-2173A/AF are Embedded Automation Computers equipped with Intel Atom 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. UNO-2173A/AF are economic new computing platforms for manufacturing executing systems, facility automation, in-vehicle, and industrial thin client applications.

## Specifications

### General

- Certifications** Energy Star, CE, FCC class A, UL, CCC
- Dimensions (W x D x H)** 255 x 152 x 59 mm (10" x 6.0" x 2.3")
- Enclosure** Aluminum +SECC
- Mounting** DIN-rail, Wallmount, VESA
- Industrial Grounding** Isolation between chassis and power ground
- Power Consumption** 15 W (Typical)
- Power Requirements** 9 ~ 36 V<sub>DC</sub> (e.g. +24 V @ 1.5 A) (Min. 36 W), ATX
- Weight** 2.5 kg
- OS Support** Windows WES 2009, Windows XP, Windows 7, Windows CE 5.0 & 6.0, Linux, QNX, WES 7
- 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
- Display** DB15 VGA connector, 1600 x 1200 @ 85 Hz  
LVDS with backlight control (UNO-2173AF)
- Watchdog Timer** Programmable 256 levels timer interval, from 1 to 255 sec
- Expansion Slot** 1 x Mini PCIe

### 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
- LAN** 2 x 10/100/1000 Base-T RJ-45 port (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 (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** IP40
- 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\*** 1MB
- Printer Port\*** 1 x printer port pin head
- USB\*** 1x internal pin head

\*Note: This function is optional for project request

## Ordering Information

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

### Accessories

- UNO-FPM21-AE** UNO-2000 series VESA mount kit
- 968EMW0021** PCIe 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

1  
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2  
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3  
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4  
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9  
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10  
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11  
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12  
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13  
Embedded IPCs

14  
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15  
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16  
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17  
Signal Conditioning

18  
USB DAQ