

UNO-2483G

Intel® Core™ i3 Regular-Size Automation Computer w/ 4 x GbE, 3 x mPCIe, HDMI/ VGA

NEW



iDoor susiAccess

RoHS COMPLIANT 2002/95/EC



CE FCC



Introduction

Advantech's UNO-2000 series of Embedded Automation Computers are Fanless with highly ruggedised with an embedded operating system (Windows CE, Windows Embedded 7/8, Linux-Embedded). It also includes iDoor technology which supports automation feature extensions such as industry fieldbus communication, Wi-Fi/3G, Digital I/O, including Palm, Small, and Regular-size Form-Factors with indicated market segments in terms of entry, value and performance product positioning. Both entry and value Embedded Automation Computers feature specific functions and they are suitable for data gateway, concentrator and data server applications. The performance model can shorten your development time and offer multiple networking interfaces to fulfill a diverse range of requirements.

Specifications

General

- **Certification** CE, FCC, UL, CCC, BSMI
- **Dimensions (W x D x H)** 252 x 149 x 62 mm (9.9" x 5.9" x 2.4")
- **Form Factor** Regular Size
- **Enclosure** Aluminum Housing
- **Mounting** Stand, Wall, VESA (Optional)
- **Weight (Net)** 1.6kg (3.5lbs)
- **Power Requirement** 24V_{DC} ± 20%
- **Power Consumption** 28W (Typical), 72W (Max)
- **OS Support** Microsoft® Windows 7/8

System Hardware

- **BIOS** AMI UEFI 128Mbit Flash BIOS
- **Watchdog Timer** Programmable 256 levels timer interval, from 1 to 255 sec
- **Processor** 4th Gen Intel® Core™ i3-4010U ULT 1.7 GHz Dual Core, 3MB L2

- **System Chip** Integrated Intel 8 Series Chipset
- **Memory** On-board 8GB DDR3L 1600 MHz

- **Graphics Engine** Intel® HD Graphics 5000/4400
- **Ethernet** Intel® i210-IT GbE, 802.1Qav, IEEE1588/802.1AS, 802.3az Intel® i218-LM GbE, Intel® AMT, IEEE1588/802.1AS, 802.3az LEDs for Power, battery, LAN (Active, Status), Tx/Rx and HDD One mSATA
- **LED Indicators** Two drive bays for SATA 2.5" HDD (Compatible with 9.5mm height HDD)
- **Storage** CFast drive by iDoor Technology (Optional)
2 x Full-size mPCIe slot, mPCIe 2.0

- **Expansion**

I/O Interfaces

- **Serial Ports** 2 x RS-232, DB9, 50–115.2kbps
2 x RS-422/485, DB9, auto flow control, 50–115.2kbps
- **LAN Ports** 4 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000Base-T Fast Ethernet
- **USB Ports** 4 x USB Ports (2 x USB 2.0, 2 x USB 3.0 compliant)
- **Displays** 1 x VGA, supports 1920 x 1200 @ 60Hz 24bpp
1 x HDMI 1.4a, supports 3200 x 2000 @ 60Hz 24bpp
- **Audio** Line-In, Line-Out
- **Power Connector** 1 x 3 Pins, Terminal Block

Features

- 4th Generation Intel® Core™ i3 Processor 1.3GHz with 8GB DDR3L Memory
- 4 x GbE, 4 x USB 2.0/3.0, 2 x RS-232, 2 x RS-422/485, 1 x VGA, 1 x HDMI, Audio
- Comprehensive Palm, Small, Regular-size form-factor
- Compact with Fanless Design
- Rubber Stopper Design with Captive Screw
- Dual HDD/SSD support with RAID 0/1 in regular-size
- Diverse system I/O and Isolated Digital I/O by iDoor Technology
- 3G/GPS/GPRS/Wi-Fi Communication by iDoor Technology
- Supports MRAM by iDoor Technology
- Chassis Grounding Protection
- LAN Redundancy (Teaming)
- Fault-Protected RS-485 Transceivers With Extended Common-Mode Range

Protocols Supported:

IEC61850, DLMS, Modbus, Ethernet IP, IEC60870 Series.

Environment

- **Operating Temperature** - 20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow
- **Storage Temperature** - 40 ~ 85°C (-40 ~ 185°F)
- **Relative Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- **Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11ms
- **Vibration Protection** Operating, IEC 60068-2-64, 2Grms, random, 5 ~ 500Hz, 1hr/axis (mSATA)
Operating, IEC 60068-2-64, 0.7Grms, random, 5 ~ 500Hz, 1hr/axis (HDD)
- **Ingress Protection** IP40

Protocols Supported

- * Modbus Serial
- * Modbus TCP/IP
- * DLMS
- * IEC60870-5-101
- * IEC60870-5-103
- * IEC60870-5-104
- * IEC61850
- * Ethernet IP