UNO-2484G

Intel® Core™ i7/i5/i3 Regular-Size Modular Box Platform (MBP) with 4 x GbE, 1 x mPCIe, HDMI, DP

NEW

Features

- Intel® Core™ i7/i5/i3 Processor with 8GB DDR4 built-in Memory
- 4 x GbE, 4 x USB 3.0, 1 x HDMI, 1 x DP, 4 x RS232/422/485
- Stackable 2nd layer for up to 4 iDoor extension or customize for domain applications
- Compact Fanless Design
- Ruggedized by Zero cable and lockable I/O design
- Dedicated TPM2.0 microcontroller designed for hardware security
- Diverse system I/O and Isolated Digital I/O by iDoor Technology
- Supports Fieldbus Protocol by iDoor Technology
- 3G/GPS/GPRS/Wi-Fi Communication by iDoor Technology
- Supports 30+ iDOOR combination with four main categories

RoHS COMPLIANT 2002/95/EC ◎ ③CC CE FCC c(UL)us LISTED E190881 I.T.E.

Introduction

Advantech's new generation UNO-2000 series of Embedded Automation Computers are Fanless with highly ruggedized with embedded operation system. New UNO-2000 series implement Universal, Customized, and Domain idea into modular design concept which provides flexible and time-to-market support in variety of applications. The series also includes iDOOR technology which supports automation feature-extensions such as Multiple I/O Peripheral, Industrial Fieldbus, Smart I/O Communication, and Signal Communication. New UNO-2000 series including pocket, small, and regular-size form-factors with indicated market segments in terms of different kinds of smart factory application categories such as Equipment Connectivity (EC), Process Visualization (PV), Environment Management (EM), and Dispatch Management (DM) solution. New UNO enables smart factory and fulfill all application.

Specifications

General

- **Certification** CE, FCC, UL, CCC, BSMI
- **Dimensions (W x D x H)** 200 x 140 x 40 (7.8" x 5.6" x 1.6") for single stack UNO-2484G version
  200 x 140 x 70 (7.8" x 5.6" x 2.8") for dual stack UNO-2484G version
- **Form Factor** Regular Size with stackable design
- **Enclosure** Aluminum Housing
- **Mounting** Stand, Wall, VESA (Optional), DIN-rail (Optional)
- **Weight (Net)** 1.2KG (2.65lb)
- **Power Requirement** 10 - 36 V_{DC}
- **Power Consumption** 55W (Typical), 95.2W (Max)
- **OS Support** Microsoft® Windows 10, Windows 7, Advantech Linux

System Hardware

- **BIOS** AMI EFI64 Mbit
- **Watchdog Timer** Programmable 255 levels timer interval, from 1 to 255 sec
- **Processor** 6th Gen Intel Core i7-6600U, 2.6GHz 4M Smartcache
  6th Gen Intel Core i5-6300U, 2.4GHz 3M Smartcache
  6th Gen Intel Core i3-6100U, 2.3GHz 3M Smartcache
- **Memory** Built-in 8GB DDR4 2133 MHz
- **Graphics Engine** Intel® HD Graphics 520
- **Ethernet** LAN A: Intel i219-IT GbE, 802.1Qav, IEEE1588/802.1AS, 802
  LAN B-D: Intel i210-IT GbE, 802.1Qav, IEEE1588/802.1AS, 802
- **LED Indicators** LEDs for Power, HDD, LAN (Active, Status), RTC Battery low
- **Storage** One mSATA (slot shared with mPCIe slot)
  Two drive bay for SATA 2.5" SSD/HDD
- **Expansion** 1 x full-size mPCIe slot for single stack version
  4 x full-size mPCIe slots for dual stack version

I/O Interfaces

- **Serial Ports** 4 x RS 232/422/485
- **LAN Ports** 4 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000Base-T Fast Ethernet
- **USB Ports** 4 x USB3.0
- **Displays** 1 x HDMI supports 1920 x 1080 @60Hz,
  1 x DP supports 3840 x 2160 @30Hz
- **Audio** Line-out
- **Power Connector** 1 x 2 Pins, Terminal Block
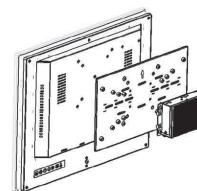
Environment

- **Operating Temperature** -20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7 m/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, 11 ms
- **Vibration Protection** Operating, IEC 60068-2-64, 2 Grms, random, 5 ~ 500 Hz, 1hr/axis (mSATA)
- **Ingress Protection** IP40

Installation Scenario
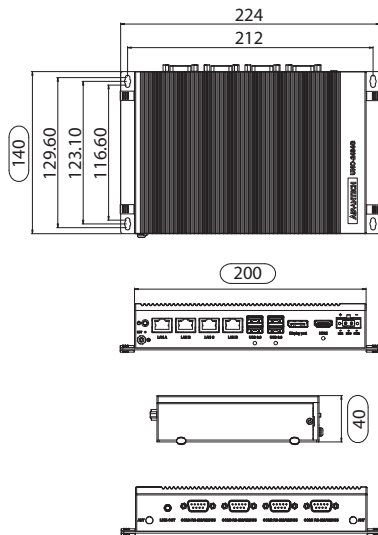
DIN-rail Mount Illustration
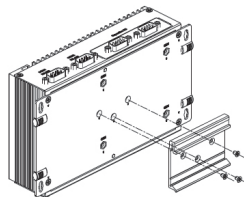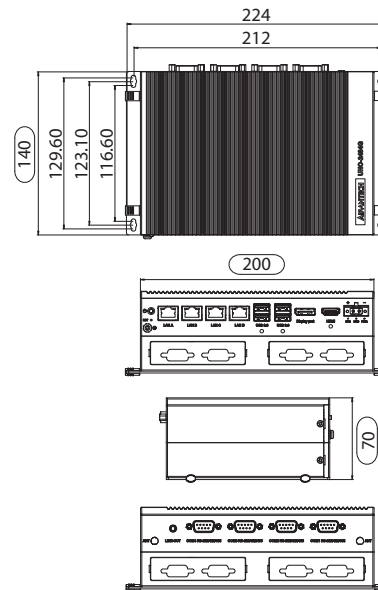
VESA Mount Illustration
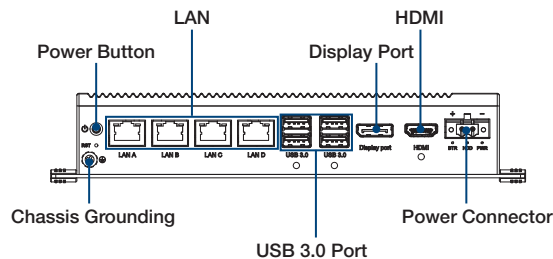
Dimensions

Unit: mm

UNO-2484G Single stack version

224
212
140
129.60
123.10
116.60
200
40

UNO-2484G dual stack version

224
212
140
129.60
123.10
116.60
200
70

Front I/O View

- Power Button
- LAN
- Display Port
- HDMI
- Chassis Grounding
- USB 3.0 Port
- Power Connector

Rear I/O Veiw

- Line Out
- COM
- Reserved Antenna
- Reserved Antenna
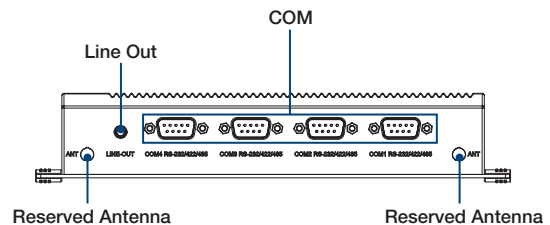
Ordering Information

- **UNO-2484G-6731AE**   Intel Core i7-6600U, 2.6GHz, 8G RAM, 4 x GbE LAN, 4 x USB3.0, 4 x COM, 1 x mPCIe
- **UNO-2484G-6531AE**   Intel Core i5-6300U, 2.4GHz, 8G RAM, 4 x GbE LAN, 4 x USB3.0, 4 x COM, 1 x mPCIe
- **UNO-2484G-6331AE**   Intel Core i3-6100U, 2.3GHz, 8G RAM, 4 x GbE LAN, 4 x USB3.0, 4 x COM, 1 x mPCIe
- **UNO-2484G-6732AE**   Universal Intel Core i7-6600U, 2.6GHz, 8G RAM, 4 x GbE LAN, 4 x USB3.0, 4 x COM, 4 x mPCIe
- **UNO-2484G-6532AE**   Universal Intel Core i5-6300U, 2.4GHz, 8G RAM, 4 x GbE LAN, 4 x USB3.0, 4 x COM, 4 x mPCIe
- **UNO-2484G-6332AE**   Universal Intel Core i3-6100U, 2.3GHz, 8G RAM, 4 x GbE LAN, 4 x USB3.0, 4 x COM, 4 x mPCIe

iDoor Modules

- **PCM-24S2WF-AE**   802.11 a/b/g/n 2T2R w/ Bluetooth4.0, Half-size mPCIe, 2-port SMA
- **PCM-24S23G-AE**   6-band HSPA Cellular Module, GPS, SIM holder, SMAx2
- **PCM-24R2GL-AE**   2-Port Gigabit Ethernet, mPCIe, RJ45
- **PCM-24D2R2-AE**   2-Port Isolated RS-232 mPCIe, DB9
- **PCM-24D4R4-AE**   4-Port Non-Isolated RS-422/485 mPCIe, DB37
- **PCM-24R1TP-AE**   1-Port Gigabit Ethernet, Intel® 82574L, mPCIe, RJ45
- **PCM-27D24DI-AE**   24-Channel Isolated Digital I/O w/ counter mPCIe, DB37

Optional Accessories

- **96PSA-A150W24T2**   Power Adapter 150W
- **96PSA-A120W24T2**   Power Adapter 120W
- **1702002600**   Power Cable US Plug 1.8 M (Industrial Grade)
- **1702002605**   Power Cable EU Plug 1.8 M (Industrial Grade)
- **1702031801**   Power Cable UK Plug 1.8 M (Industrial Grade)
- **1700000596**   Power Cable China/Australia Plug 1.8 M (Industrial Grade)
- **UNO-2484G-EKAE**   UNO-2484G second stack expansion module
- **UNO-2000G-VMKAE**   UNO-2000 VESA Mount Kit
- **UNO-2000G-DMKAE**   UNO-2484G DIN RAIL Kit
- **UNO-2000-LKAE**   Cable lockable kit 10 units/per pack
- **UNO-2484G-S2AE**   External swappable HDD extension kit (Dual HDD bay)
- **2070015166**   WES7P x86 MUI v4.17 B002 image
- **2070015318**   WIN10ENT 2016LTSB V6.01B056 for UNO-2484G i7 version
- **2070015319**   WIN10ENT 2016LTSB V6.01B056 for UNO-2484G i5/i3 version