

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

Introduction

Advantech's new generation UNO-2000 series of Embedded Automation Computers are fanless and highly ruggedized with embedded OS. New UNO-2000 series are modular designs which provide 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 peripherals, Industrial Fieldbus, and smart I/O Communication. New UNO-2000 series including pocket, small, and regular-size form-factors for smart factory applications such as Equipment Connectivity (EC), Process Visualization (PV), Environment Management (EM), and Dispatch Management (DM) solutions.

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 double stack
UNO-2484G version
- Form Factor** Regular Size with stackable design
- Enclosure** Aluminum Housing
- Mounting** Stand, Wall, VESA (Optional), DIN-rail (Optional)
- Weight (Net)** Single stack: 1.4kg (3.09lbs)
Double stack: 1.6kg (3.53lbs)
- Power Requirement** 10 - 36 V_{DC}
- Power Consumption** 55W (Typical), 95.2W (Max)
- OS Support** Microsoft® Windows 7, 10, Advantech Linux (UNO-2484G-6 series)
Microsoft® Windows 10, Advantech Linux (UNO-2484G-7 series)

System Hardware

- BIOS** AMI EFI64 Mbit
- Watchdog Timer** Programmable 255 levels timer interval, from 1 to 255 sec
- Hardware Security** TPM2.0
- Processor** 6th Gen Intel Core i7-6600U, 2.6GHz
i5-6300U, 2.4GHz
i3-6100U, 2.3GHz
7th Gen Intel Core i7-7600U, 2.8GHz
i5-7300U, 2.6GHz
i3-7100U, 2.4GHz
- Memory** Built-in 8GB DDR4 2133 MHz
- Graphics Engine** Intel® HD Graphics 620
- 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 (Support RAID 0/1)
- Expansion** 1 x full-size mPCIe slot for single stack version
4 x full-size mPCIe slots for double stack version

I/O Interfaces

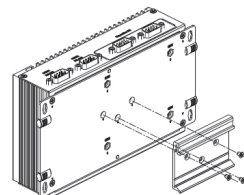
- Serial Ports** 4 x RS 232/422/485
- LAN Ports** 4 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T Fast Ethernet
- USB Ports** 4 x USB3.0
- Displays** 1 x HDMI supports 1920 x 1080 @60Hz,
1 x DP supports 3840 x 2160 @30Hz
Line-out
- Audio**
- Power Connector** 1 x 2 Pins, Terminal Block

Environment

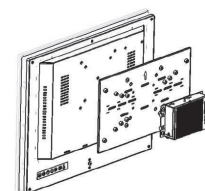
- Operating Temperature** -20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7 m/s airflow
- Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- Relative Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- Vibration Protection** Operating, IEC 60068-2-64, 3 Grms, random, 5 ~ 500 Hz, 1hr/axis (mSATA)
- Ingress Protection** IP40

Installation Scenario

DIN-rail Mount Illustration



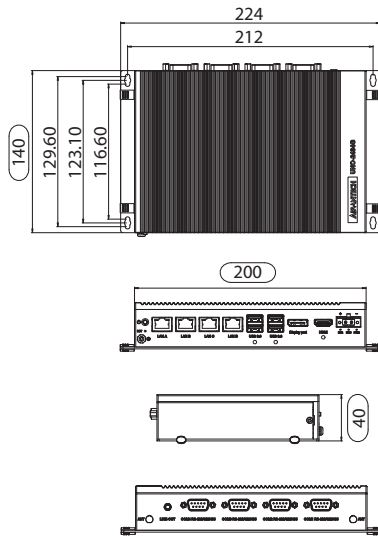
VESA Mount Illustration



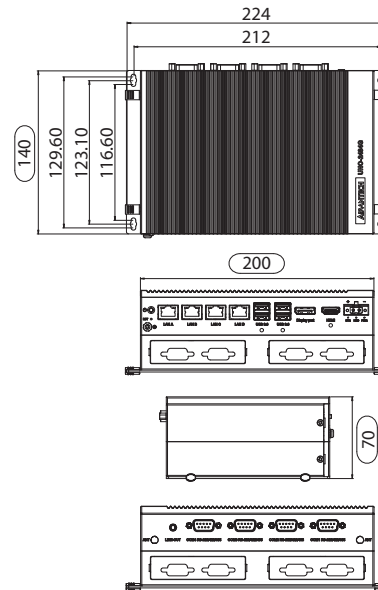
Dimensions

Unit: mm

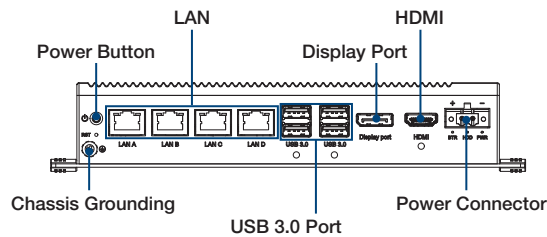
UNO-2484G Single stack version



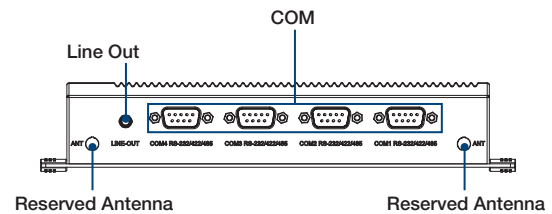
UNO-2484G double stack version



Front I/O View



Rear I/O View



Ordering Information

	Ordering Part Number	CPU generation	CPU	mPCIe slot	iDoor	USB	COM	LAN
Single Stack	UNO-2484G-7731AE	7 Gen.	i7-7600U	1	x	4	4	4
	UNO-2484G-7531AE		i5-7300U					
	UNO-2484G-7331AE		i3-7100U					
	UNO-2484G-6731AE	i7-6600U						
	UNO-2484G-6531AE	i5-6300U						
Double Stack	UNO-2484G-6331AE	6 Gen.	i3-6100U	4	v	4	4	4
	UNO-2484G-7732AE	7 Gen.	i7-7600U					
	UNO-2484G-7532AE		i5-7300U					
	UNO-2484G-7332AE		i3-7100U					
	UNO-2484G-6732AE	6 Gen.	i7-6600U					
UNO-2484G-6532AE	i5-6300U							
	UNO-2484G-6332AE		i3-6100U					

iDoor Modules

- PCM-24S2WF-BE**: 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-BE**: 2-Port Isolated RS-232 mPCIe, DB9
 - PCM-24D4R4-BE**: 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
- Contact Advantech for all compatible iDoor lists

- 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

Second Stack Extension Module

- UNO-2484G-EKAE**: UNO-2484G second stack extension module for supporting 4 iDoors
- UNO-2484G-S2AE**: External swappable HDD extension kit (Dual HDD bay)
- UNO-2484G-PCIEAE**: UNO-2484G second stack extension module for supporting PCIe x4

(Note: 1. PCIe card support: max up to 15W. 2. Storage need with wide temperature support 3. Operating Temperature: -20 - 50°C)

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)

Operating System

- UNO-2484G-6 series:**
 - 20703WE7PS0009**: WS7P X64 MUI V4.18 B023 Image
 - 2070015318**: WIN10 LTSB V6.01B056 for i7 version
 - 2070015319**: WIN10 LTSB V6.01B056 for i5/i3 version
- UNO-2484G-7 series:**
 - 20703WX6HS0008**: WIN10 LTSB v6.02 B009 for i7 version
 - 20703WX6VS0006**: WIN10 LTSB v6.02 B009 for i5/i3 version