UNO-2484G

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

NEW

Features

- Intel® Core™ i7/i5/i3/Celeron 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: 1.8kg (3.97lbs)
- **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
  Celeron 3965U, 2.0 GHz
- **Memory** i7/i5/i3 model: Built-in 8GB DDR4 2133 MHz (support up to 16G)
  Celeron model: Built-in 4GB DDR4 3200 MHz (support up to 16G)
- **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 (only support wireless iDOOR)
  4 x full-size mPCIe slots for double stack version (1 slot for wireless iDOOR, 3 slots for all iDOOR modules)
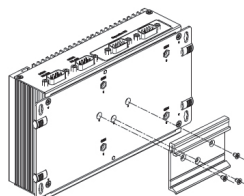
I/O Interfaces

- **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, 1 x DP
  HDMI 1.4 (4096x2304@24Hz)
  HDMI 1.4 (1920x1080@60Hz)
  DP 1.2 (4096x2304@60Hz)
  DP 1.2 (1920x1080@60Hz)
- **Audio** Line-out
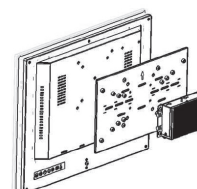- **Power Connector** 1 x 2 Pins, Terminal Block

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, 3 Grms, random, 5 ~ 500 Hz, 1hr/axis (mSATA)
- **Ingress Protection** IP40

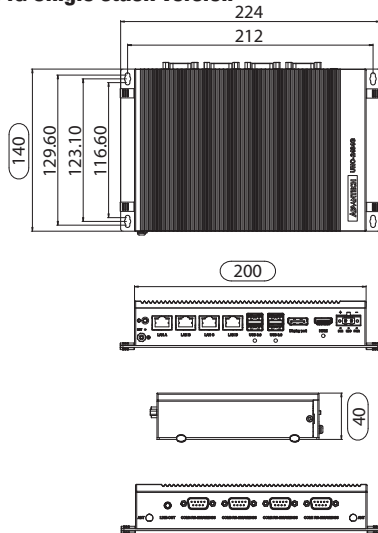## Installation Scenario

DIN-rail Mount Illustration
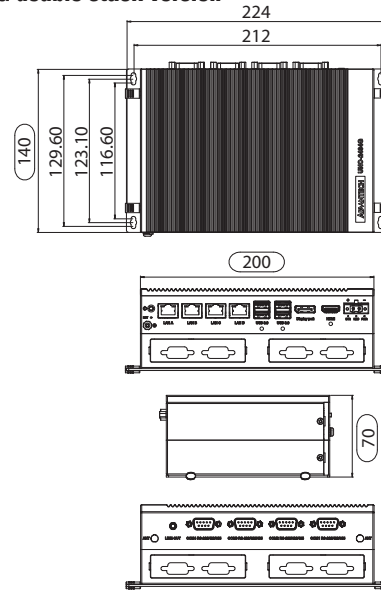
VESA Mount Illustration
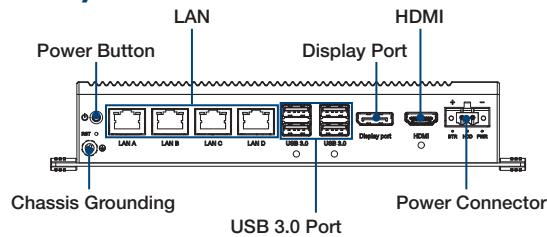
Dimensions

Unit: mm
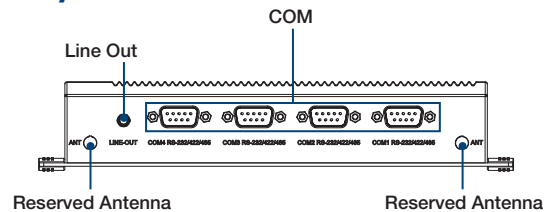
UNO-2484G Single stack version

224
212
140
129.60
123.10
116.60
200
40

UNO-2484G double 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

	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-7C21AE		Celeron 3965U					
	UNO-2484G-6731AE	6 Gen.	i7-6600U					
	UNO-2484G-6531AE		i5-6300U					
	UNO-2484G-6331AE		i3-6100U					
Double Stack	UNO-2484G-7732AE	7 Gen.	i7-7600U	4	v			
	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

Optional Accessories

- 96PSA-A150W24T2-3 Power Adapter 150W
- 96PSA-A120W24T2-3 Power Adapter 120W
- 1702002600 Power Cable US Plug 1.8 M (Industrial Grade)
- UNO-REPWR-AE Remote power & reset kit

- 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-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-VEGA330 UNO-2484G 1st stack bottom plate for VEGA-330

Operating System

UNO-2484G-6 series:
- 20703WE7PS0036 WS7P X64 MUI V4.18 B033 Image
- 20703WX9HS0001 WIN10 LTSC V6.04 for i7 version
- 20703WX9VS0001 WIN10 LTSC V6.04 for i5/ i3 version

UNO-2484G-7 series:
- 20703WX9HS0000 WIN10 LTSC V6.04 for i7 version
- 20703WX9VS0000 WIN10 LTSC V6.04 for i5/ i3 version

Please note: If some optional modules are offered with the system, additional system certificates may be required in certain regions/countries.
Please contact Advantech for certificate compliance.