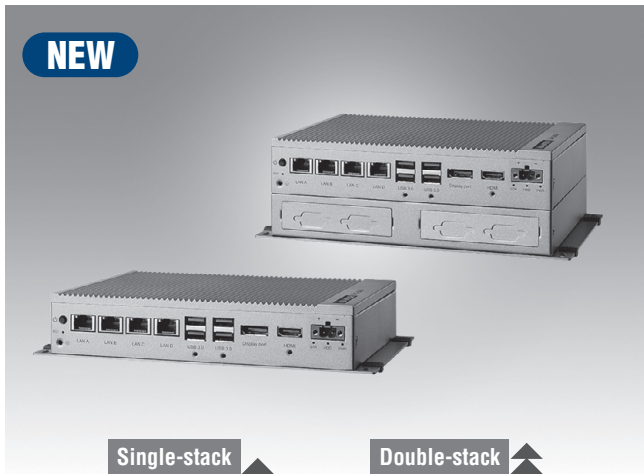


# UNO-2484G

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

NEW



Single-stack

Double-stack



## 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
- 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<sub>DC</sub>
- 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 (Optional)
- 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 520/620

- Ethernet** LAN A: Intel i219-IT GbE, 802.1Qav, IEEE1588/802.1AS, 802  
LAN B-D: Intel® i210/ Realtek i8119i 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

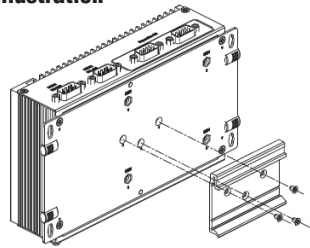
- Serial Ports** 4 x RS 232/422/485
- LAN Ports** 4 x RJ45, 10/100/1000 Mbps IEEE 802.3u  
1000BASE-T Fast Ethernet
- USB Ports** 4 x USB3.0
- Displays** 1 x HDMI, 1 x DP  
HDMI 1.4 (4096x2304@24Hz)  
HDMI 1.4 (1920x1080@60Hz)  
DP 1.2 (4096x2304@60Hz)  
DP 1.2 (1920x1080@60Hz)
- Audio** Line-out (optional)
- Power Connector** 1 x 2 Pins, Terminal Block

### Environment

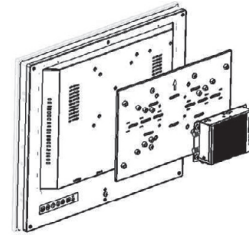
- Operating Temperature** -20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7 m/s airflow
- Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- Relative Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- Vibration Protection** Operating, IEC 60068-2-64,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

## Installation Scenario

DIN-rail Mount Illustration



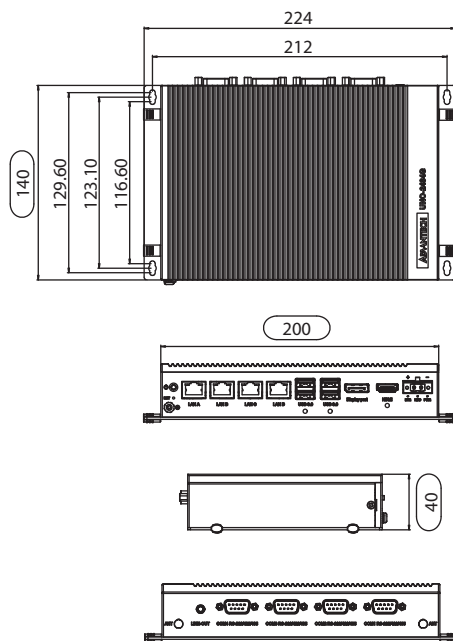
VESA Mount Illustration



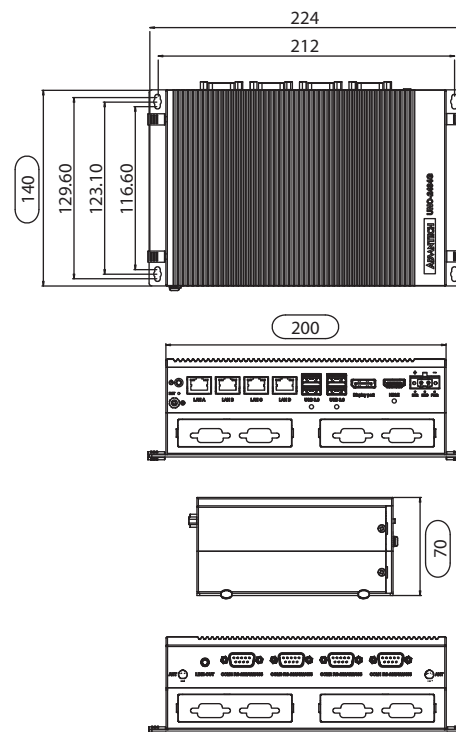
## Dimensions

Unit: mm

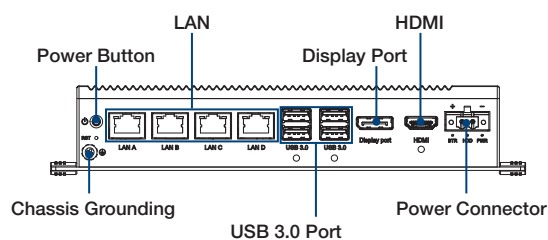
UNO-2484G Single stack version



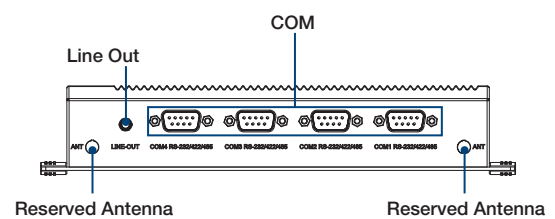
UNO-2484G double stack version



## Front I/O View



## Rear I/O View



## Ordering Information

Ordering Part Number	CPU Generation	CPU	LAN B-D IC	TPM2.0	mPCIe slot	iDoor	Audio	USB	COM	LAN	
Single Stack	Gen 7	UNO-2484G-7731BE	Realtek i8119i	X	1	x	Line Out	4	4	4	
		UNO-2484G-7531BE									i7-7600U
		UNO-2484G-7331BE									i5-7300U
	UNO-2484G-7C21BE	i3-7100U									
	UNO-2484G-6731BE	Celeron 3965U									
	UNO-2484G-6531BE	i7-6600U									
Double Stack	Gen 7	UNO-2484G-7732BE	Realtek i8119i	X	4	4	Line Out	4	4	4	
		UNO-2484G-7532BE									i7-7600U
		UNO-2484G-7332BE									i5-7300U
	UNO-2484G-7C22BE	i3-7100U									
	UNO-2484G-6732BE	Celeron 3965U									
	UNO-2484G-6532BE	i7-6600U									
Gen 6	UNO-2484G-6331BE	i5-6300U									
	UNO-2484G-6332BE	i3-6100U									

\*Below Part Number had been announced end of life

Ordering Part Number	CPU Generation	CPU	LAN B-D IC	TPM2.0	mPCIe slot	iDoor	Audio	USB	COM	LAN	
Single Stack	Gen 7	UNO-2484G-7731AE	Intel® i210	Yes	1	x	Line Out	4	4	4	
		UNO-2484G-7531AE									i7-7600U
		UNO-2484G-7331AE									i5-7300U
	UNO-2484G-7C21AE	i3-7100U									
	UNO-2484G-6731AE	Celeron 3965U									
	UNO-2484G-6531AE	i7-6600U									
Double Stack	Gen 7	UNO-2484G-7732AE	Intel® i210	Yes	4	4	Line Out	4	4	4	
		UNO-2484G-7532AE									i7-7600U
		UNO-2484G-7332AE									i5-7300U
	UNO-2484G-7C22AE	i3-7100U									
	UNO-2484G-6732AE	Celeron 3965U									
	UNO-2484G-6532AE	i7-6600U									
Gen 6	UNO-2484G-6332AE	i5-6300U									
	UNO-2484G-6333AE	i3-6100U									

## iDoor Modules

Supported by "Double Stack" models. Applied on "Single stack" models with 2nd stack extension kit as well

- PCM-24S2WF-CE 802.11 a/b/g/n 2T2R w/ Bluetooth4.0, Half-size mPCIe, 2-port SMA
- 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-BE 1-Port Gigabit Ethernet, mPCIe, RJ45
- PCM-27D24DI-AE 24-Channel Isolated Digital I/O w/ counter mPCIe, DB37

Please 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:

- 20704WE7PS0002 WS7P X64 MUI V4.19 B038 image
- 20704WX1HS0002 WIN10 LTSC V6.08 for i7 version (High End)
- 20704WX1VS0002 WIN10 LTSC V6.08 for i5/i3 version (Value)
- 20703LEB1S0113 Image AdvLinuxTu V2.1.3 (Ubuntu 18.04)
- 20704U20DS0005 Image AdvLinuxTu V3.2.2 (Ubuntu 20.04)

### UNO-2484G-7 series:

- 20704WX1HS0003 WIN10 LTSC V6.08 for i7 version (High End)
- 20704WX1VS0003 WIN10 LTSC V6.08 for i5/i3 version (Value)
- 20703LEB1S0113 Image AdvLinuxTu V2.1.3 (Ubuntu 18.04)
- 20704U20DS0005 Image AdvLinuxTu V3.2.2 (Ubuntu 20.04)

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.

# Stackable Extension Kits

## UNO-2484G-EKBE

Second stack module for supporting iDoor (3 x mPCIe slot) on UNO-2484G-xx31AE



### Specifications

General	
Ports	4 x iDOOR (3 x mPCIe only)
Dimensions	200 x 140 x 40 mm
Weight	400g
Environment	
Operating Temperature	-20 ~ 60 °C

### Ordering Information

P/N	Description
UNO-2484G-EKBE	UNO-2484G 2nd stack expansion module for 4 iDoor

## UNO-2484G-S2AE

Second stack module for supporting iDoor technology on UNO-2484G-xx31AE



### Specifications

General	
Ports	2 x external swappable HDD/SSD Storage
Dimensions	200 x 140 x 40 mm
Weight	400g
Environment	
Operating Temperature	-20 ~ 60 °C

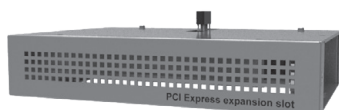
### Ordering Information

P/N	Description
UNO-2484G-S2AE	UNO-2484G external swappable HDD extension kit

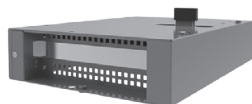
## UNO-2484G-PCIEAE

Second stack module for supporting 1 PCIe x4 card on UNO-2484G-xx31AE

Front view



Side View



### Specifications

General	
Ports	1 x PCIe x4 slot for half-length PCIe card (W167 x H111 mm)
Dimensions	200 x 140 x 40 mm
Weight	400g
Power consumption	15W (Max)
Environment	
Operating Temperature	0 ~ 50 °C (Depends on expansion card)

### Ordering Information

P/N	Description
UNO-2484G-PCIEAE	UNO-2484G second stack PCIe x4 expansion module