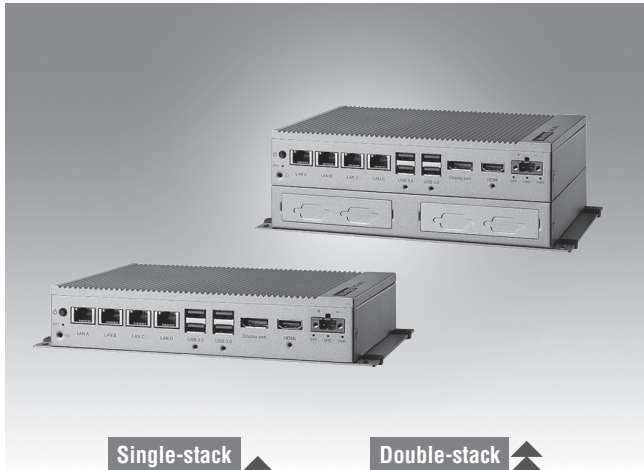


UNO-2484G

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



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_{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 128 Mbit SPI
- 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 2133 MHz (support up to 16G)
- Graphics Engine** Intel® HD Graphics 520/620

- Ethernet** 4 x RJ45, 10/100/1000 Mbps
- 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

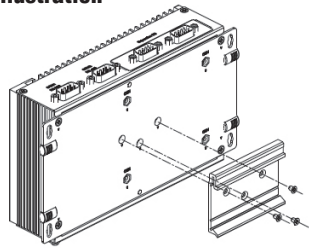
- Serial Ports** 4 x RS 232/422/485, 50-115.2 kbps speed
- LAN Ports** 4 x RJ45, 10/100/1000 Mbps
1000BASE-T Fast Ethernet
- USB Ports** 4 x USB3.0
- Displays** 1 x HDMI, 1 x DP
HDMI 1.4 (4096x2304@24Hz)
HDMI 1.4 (1920x1080@60Hz)
DP 1.2 (4096x2304@60Hz)
DP 1.2 (1920x1080@60Hz)
- Audio** Line-out
- Power Connector** 1 x 2 Pins, Terminal Block

Environment

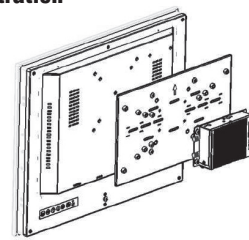
- Operating Temperature** -20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7 m/s airflow
- Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- Relative Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- Vibration Protection** Operating, IEC 60068-2-64,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

Installation Scenario

DIN-rail Mount Illustration



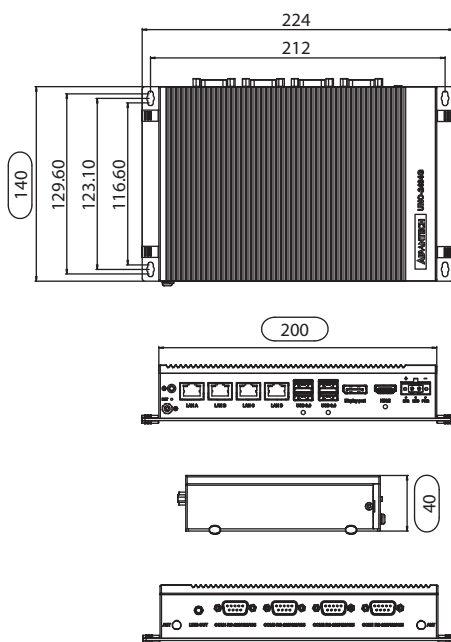
VESA Mount Illustration



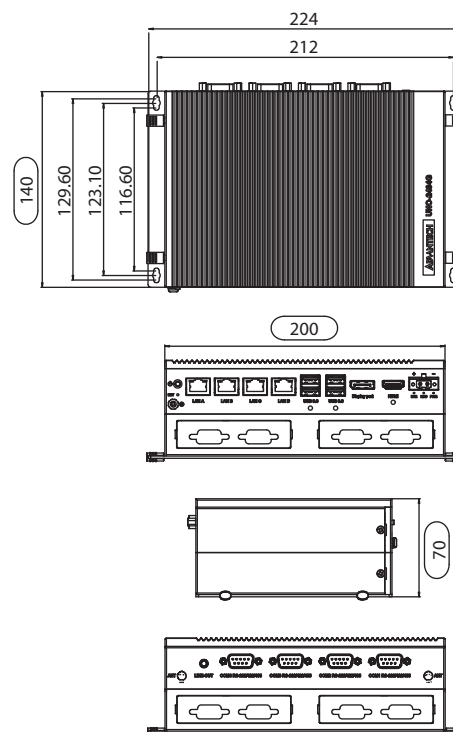
Dimensions

Unit: mm

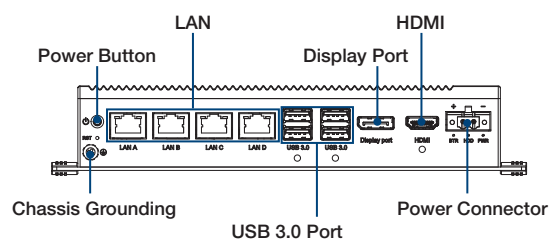
UNO-2484G Single stack version



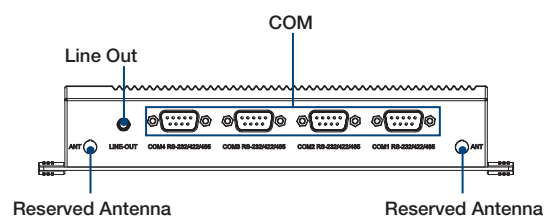
UNO-2484G double stack version



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	Remark
Single Stack	UNO-2484G-7731BE	Gen 7	i7-7600U	Realtek i8119i	X	1	x	Line Out	4	4	4	-
	UNO-2484G-7531BE		i5-7300U									
	UNO-2484G-7331BE		i3-7100U									
	UNO-2484G-7C21BE	Gen 6	Celeron 3965U									US Region
	UNO-2484G-6731BE		i7-6600U									
	UNO-2484G-6531BE		i5-6300U									
	UNO-2484G-6331BE		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-A150W24T2-4** Power Adapter 150W
- **96PSA-A120W24T2-4** 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)
- **1702031801-11** Power Cable UK Plug 1.8 M (Industrial Grade)
- **1700000596-11** 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)

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

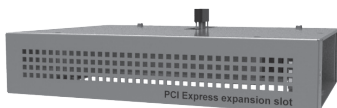
Ordering Information

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

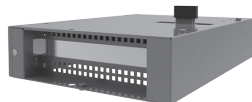
UNO-2484G-PCIEAE

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