

UNO-2484G V2

Intel® Core™ 11th i7/i5/i3/Celeron®
Processor Modular Box PC with 4 x GbE,
4 x USB, 2 x M.2, 2 x mPCIe, HDMI 1.4,
DP1.4a

NEW



Single-stack

Double-stack



Introduction

Advantech's UNO-2000 series of embedded automation computers are highly rugged, fanless systems. The modular design offers vigorous computing performance and flexible scalability with various I/O ports to support IoT Connectivity. The UNO-2484G V2 features powerful computing capacity, optimized I/O port and expansion options supporting high speed and low latency wire/ wireless connectivity and NVME storage for IoT edge data transmission. 4K Ultra HD display ports provide high resolution and with an optional second expansion stack, users can have even more I/O options with Advantech's iDoor technology.

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
200 x 140 x 70 (7.8" x 5.6" x 2.8") for single stack w/
expansion stack UNO-2484G V2 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)
- **Power Requirement** 10 - 36 V_{DC}
- **Power Consumption** 30.2W (Typical), 85W (Max)
- **OS Support** Microsoft® Windows 10, Windows 11, Advantech
Linux (Ubuntu 20.04 Desktop/ Server)
- **Software Compatibility** WISE-Edge365

System Hardware

- **BIOS** AMI 256 Mbit SPI
- **Watchdog Timer** Programmable 255 levels timer interval, from 1 to 255
sec
- **Hardware Security** TPM2.0 2
- **Processor** 11th Gen Intel Core
Core™ i3-1115G4E dual-core 2.2GHz
Core™ i5-1145G7E quad-core 1.5GHz
Core™ i7-1185G7E quad-core 1.8GHz
- **Memory** Built-in 8GB DDR4 3200 MHz, supports up to 64GB
(2 slots)
- **Graphics Engine** Intel® Iris® Xe Graphics
- **Ethernet** LAN A: Intel i219-LM 1Gb/s, IEEE 802.3, 802.1as/1588
LAN B-D: Intel® i226-LM 2.5Gb/s, IEEE 802.3,
802.1as/1588
- **LED Indicators** LEDs for Power, HDD, LAN (Active status), RTC Battery
low

*Be sure to select thermal pad for CPU/RAM for RAM capacity expansion

Features

- Intel® Core™ 11th i7/i5/i3 Processor with 8GB DDR4 3200Mb/s memory
- 4 x GbE, 3 x USB 3.2 Gen2, 1 x USB2.0, 1 x HDMI 1.4, 1 x DP 1.4a,
4 x RS232/422/485
- Optional 2nd layer for up to 2x iDoor extension or customize for domain
applications
- Compact fanless design
- Ruggedized by zero cable and lockable I/O design
- Display port supports 4K Ultra HD
- Supports 30+ iDoor combination to expand wireless connectivity, industrial
fieldbus or more I/O
- Supports NVME storage w/ high data-transmission efficiency
- DP++ ensures HDMI/DVI compatibility

- **Expansion/Storage** 1 x M.2 B key slot (USB Signal for 3042/3052
LTE/5G/LTE module, SATA signal for storage)
1 x 2.5" SSD SATA drive bay (support SSD/HDD height
up to 9.5mm)
*Support RAID0/RAID1 with 2.5" SSD and M.2 B key
2242 SSD.
1 x M.2 M key (PCIex4) supports 2280 NVME SSD
2 x mPCIe slot (PCIe, USB2.0 signal)

I/O Interfaces

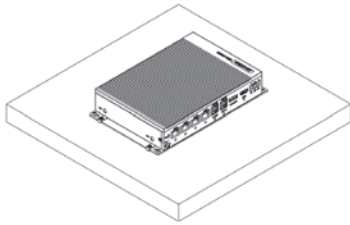
- **Serial Ports** 4 x RS 232/422/485, 50-115.2 kbps speed
- **LAN Ports** 1 x RJ45 , 10/100/1000 Mbps
3 x RJ45 , 10/100/1000/2500 Mbps
- **USB Ports** 3 x USB 3.2 Gen2, 1 x USB2.0
- **Displays** 1 x HDMI 1.4 (3840x2160@30Hz)
1 x DP 1.4a (4096x2304@60Hz)
- **USB Type-C** 1 x USB3.2 Gen2, support DP1.4a Alt. mode
- **Power Connector** 1 x 2 pins, terminal block

Environment

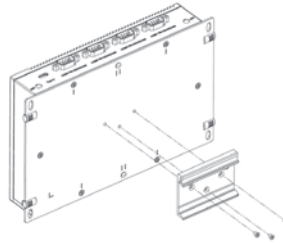
- **Operating Temperature** -20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7 m/s
airflow
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Relative Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- **Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- **Vibration Protection** Operating,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

Installation Scenario

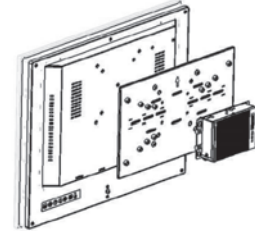
Stand/Wall Mount



DIN-rail Mount (Optional)



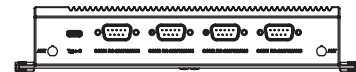
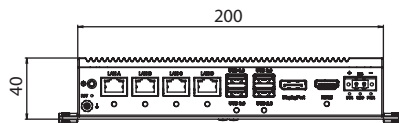
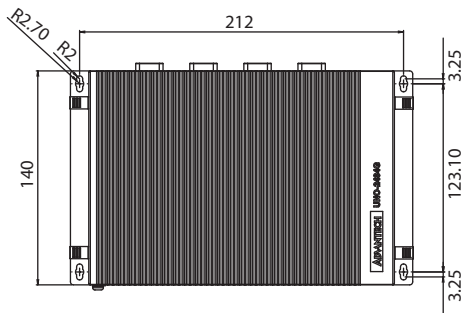
VESA Mount (Optional)



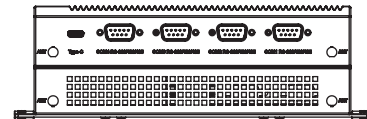
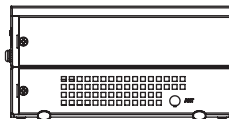
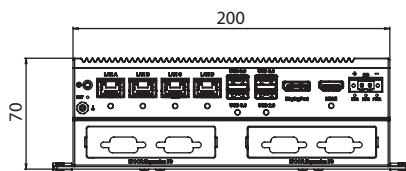
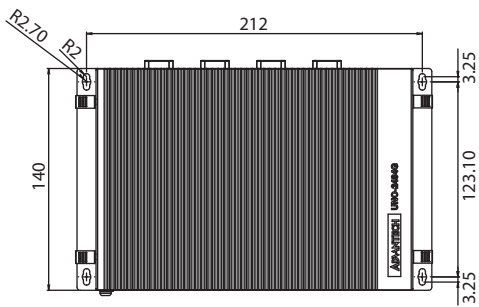
Dimensions

Unit: mm

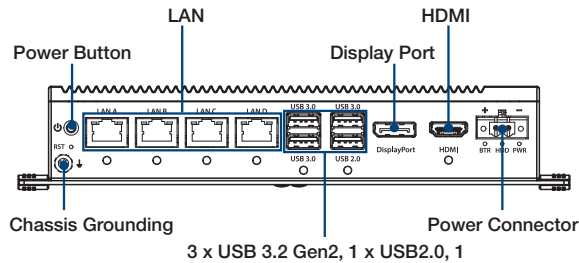
UNO-2484G V2 Single stack



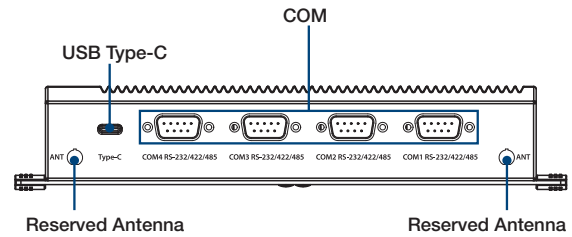
UNO-2484G V2 Single stack + Expansion stack



Front I/O View



Rear I/O View



Ordering Information

Ordering P/N	CPU	Memory	M.2	mPCIe slot	iDoor	USB	COM	LAN	Antenna hole
UNO-2484G-B731AE	i7-1185G7E	8G DDR4	M key *1 B key *1	2	2 (with 2nd stack UNO-2484G-EKCE)	4	4	4	4 (Base unit)
UNO-2484G-B531AE	i5-1145G7E	8G DDR4							
UNO-2484G-B331AE	i3-1115G4E	8G DDR4							

iDoor Modules

Supported by "single stack" models with extension stack

- **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-27D24DI-AE** 24-Channel Isolated Digital I/O w/ counter mPCIe, DB37
- **PCM-24D2R4-BE** Isolated RS-422/485, DB9 x 2, (USB type)
- **PCM-24D4R2-BE** Non-Isolated RS-232, DB37 x 1 (USB Type)
- **PCM-24U2U3-BE** 2-Port USB 3.0, mPCIe
- **PCM-23S34G-CE** EG25G LTE/HSPA+/GPRS, mPCIe, Ant
- **PCM-26D2CA-BE** 2-Port CANBus, mPCIe, DB9 x 2 (PCIe Type)
- **PCM-26D2CA-CE** 2-Port CANBus, mPCIe, DB9 x 2 (USB Type)
- **PCM-24S2WF-CE** 802.11 a/b/g/n/ac 2T2R w/BT4.1, Intel AC9260

Please contact Advantech for all compatible iDoor lists

Embedded OS

- **20704WX1HS0017** Img Win10 LTSC V6.08 B042 UNO-2484G_V2 High
- **20704WX1VS0017** Img Win10 LTSC V6.08 B042 UNO-2484G_V2 Value
- **20704U20DS0008** Image AdvLinuxTu-IOTG_x64 V3.4.1 for UNO series

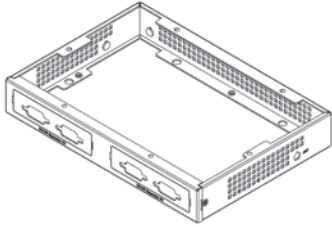
Optional Accessories

- **96PSA-A150W24T2-4** Power Adapter 150W
- **96PSA-A120W24T2-4** 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)
- **1700033574-01** F cable 2x10P-2.0x2/IDE#2 16P-2.54 17CM
- **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-REPWR-AE** Remote power & reset kit
- **1990021846N000** Thermal Pad for adding 2nd RAM
- **1990038771N000** CPU Thermal Pad
- **1990036433N050** Thermal Pad for LAN IC (Please place 3 pcs for 2.5GB LAN)

Stackable Extension Kits

UNO-2484G-EKCE

Second stack module for supporting 2*iDoor on UNO-2484G V2



Specifications

General	
Expansion	2 x iDoor, 4 x reserved antenna hole
Dimensions	200 x 140 x 30 mm
Weight	400g

Ordering Information

Ordering P/N	Description
UNO-2484G-EKCE	UNO-2484G V2 2nd stack for 2 iDoor