UNO-2484G V2

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

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

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** Win10 LTSC, Win11 LTSC, Ubuntu 20.04; 22.04
- **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
- **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)

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

- **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
- **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 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

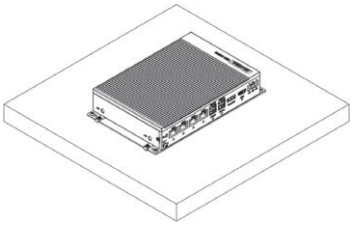
- **Serial Ports** 4 x RS 232/422/485, 50-115.2 kbps speed
- **LAN Ports** 1 x RJ45 , 10/100/1000 Mbps
  3 x RJ45 , 10/100/1000/2500 Mbps
- **USB Ports** 3 x USB 3.2 Gen2, 1 x USB2.0
- **Displays** 1 x HDMI 1.4 (3840x2160@30Hz)
  1 x DP 1.4a (4096x2304@60Hz)
- **USB Type-C** 1 x USB3.2 Gen2, support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

Environment

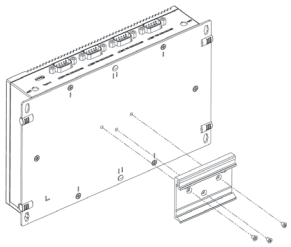
- **Operating Temperature** -20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7 m/s airflow
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Relative Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- **Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- **Vibration Protection** Operating,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

Installation Scenario

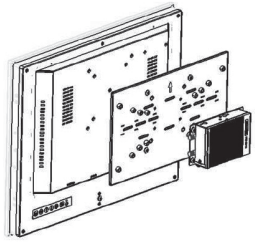
Stand/Wall Mount



DIN-rail Mount (Optional)



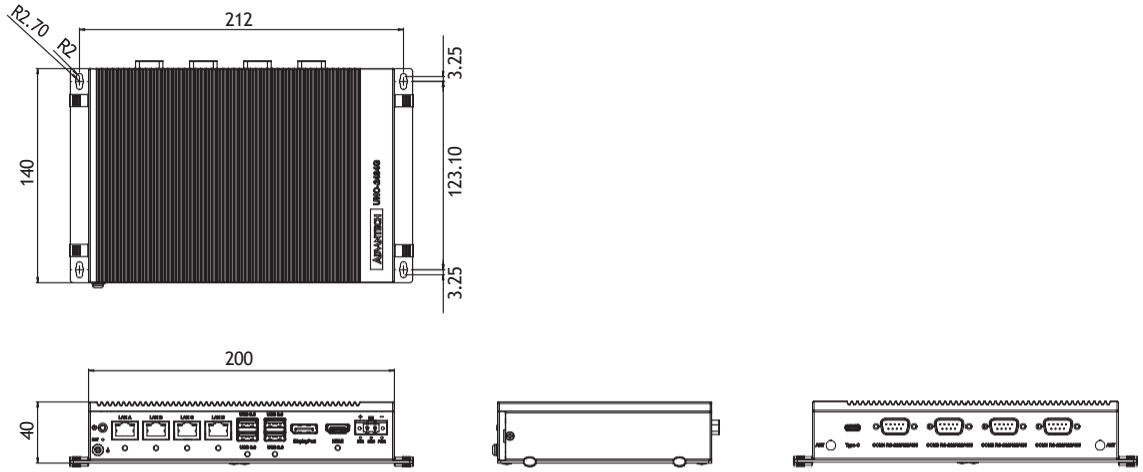
VESA Mount (Optional)



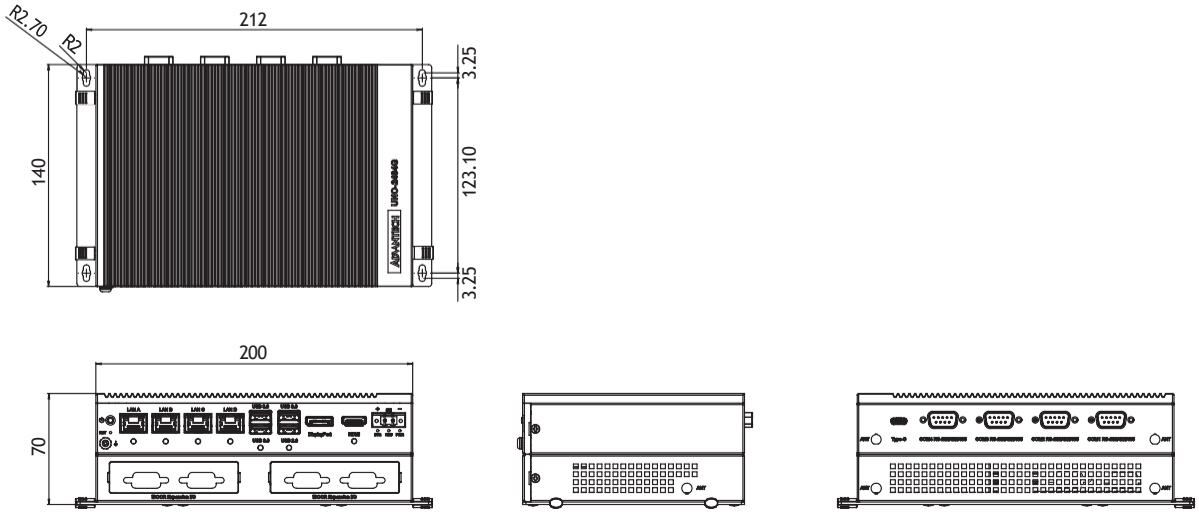
Dimensions

Unit: mm

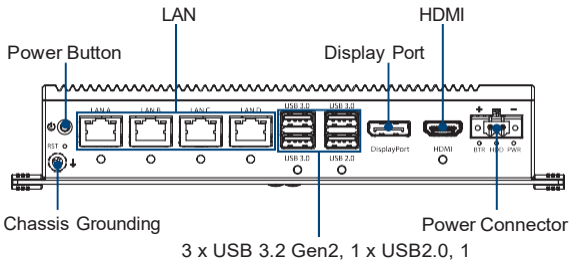
UNO-2484G V2 Single stack



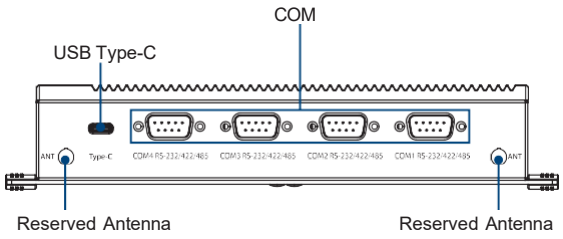
UNO-2484G V2 Single stack + Expansion stack



Front I/O View



Rear I/O Veiw



Ordering Information

Ordering P/N	CPU	Memory	M.2	mPCIe slot	iDoor	USB	COM	LAN	Antenna hole	Remark
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-B731AU	i7-1185G7E	8G DDR4								US Region
UNO-2484G-B531AE	i5-1145G7E	8G DDR4								-
UNO-2484G-B331AE	i3-1115G4E	8G DDR4								-
UNO-2484G-B331AU	i3-1115G4E	8G DDR4								US Region

iDoor Modules

Supporting by base unit with second extension stack.
Contact Advantech for more compatible iDoor solutions.

Compatible With mPCIe Slot

- **PCM-2300MR-BE** MRAM, 4 MB, mPCIe
- **PCM-23U1DG-CE** USB slot w/ lock for USB dongle, half-size mPCIe
- **PCM-24D2R2-BE** 2-Port Isolated RS-232, mPCIe, DB9
- **PCM-24D2R4-BE** 2-Port Isolated RS-422/485, mPCIe, DB9
- **PCM-24D4R2-BE** 4-Port Non-Isolated RS-232, mPCIe, DB37
- **PCM-24D4R4-BE** 4-Port Non-Isolated RS-422/485, mPCIe, DB37
- **PCM-24R1TP-BE** 1-Port Gigabit Ethernet, mPCIe, RJ45
- **PCM-24R2GL-AE** 2-Port Gigabit Ethernet, mPCIe, RJ45
- **PCM-24S2WF-CE** WIFI 802.11 a/b/g/n/ac 2T2R w/BT4.1, Intel AC9260
- **PCM-24U2U3-BE** 2-Port USB 3.0, mPCIe
- **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-27D24DI-AE** 24-Channel Isolated Digital I/O w/ counter, mPCIe, DB37

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)
- **1702031801-11** Power Cable UK Plug 1.8 M (Industrial Grade)
- **1700000596-11** 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)
- **98R1U248400** Thermal kit for 2nd stack M key(2280)
- **98R1U248410** Thermal kit for 2nd stack B key(3052)

Embedded OS

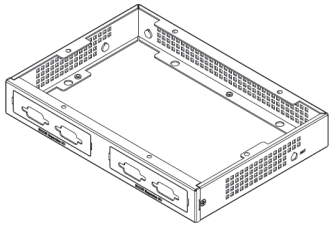
- **20704WX1HS0017** Img Win10 LTSC V6.08 B042 UNO-2484G_V2 High
- **20704WX1VS0017** Img Win10 LTSC V6.08 B042 UNO-2484G_V2 Value
- **20701U22DS0001** Image AdvLinuxTu-IOTG_x64 V4.0.4 for UNO series
- **20704U20DS0008** Image AdvLinuxTu-IOTG_x64 V3.4.1 for UNO series
- **20701WLH1S0011** Img WIN11 LTSC v7.01 B020 for UNO-2484G_V2 High
- **20701WLV1S0012** Img WIN11 LTSC v7.01 B020 for UNO-2484G_V2 Value

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-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