

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



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

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/GPRS/GPRS/Wi-Fi communication by iDoor technology
- Supports 30+ iDOOR combination with four main categories

- **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

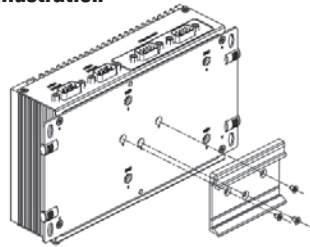
- **Serial Ports** 4 x RS 232/422/485, 50-115.2 kbps speed
- **LAN Ports** 4 x RJ45, 10/100/1000 Mbps
1000BASE-T Fast Ethernet
- **USB Ports** 4 x USB3.0
- **Displays** 1 x HDMI, 1 x DP
HDMI 1.4 (4096x2304@24Hz)
HDMI 1.4 (1920x1080@60Hz)
DP 1.2 (4096x2304@60Hz)
DP 1.2 (1920x1080@60Hz)
- **Audio** Line-out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

Environment

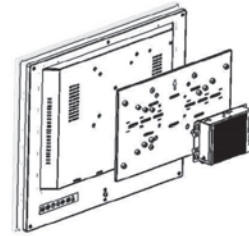
- **Operating Temperature** -20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7 m/s airflow
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Relative Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- **Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- **Vibration Protection** Operating,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

Installation Scenario

DIN-rail Mount Illustration



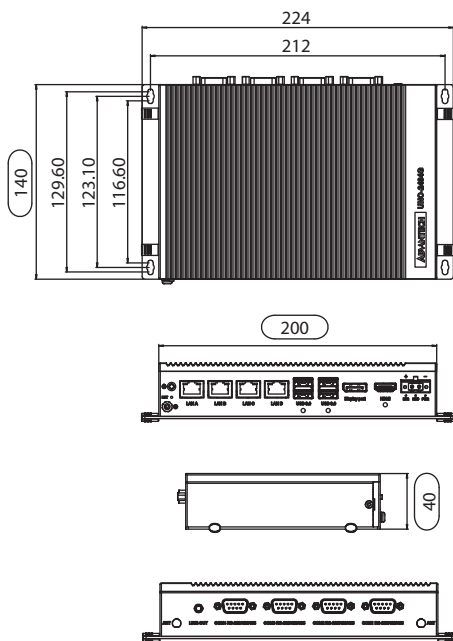
VESA Mount Illustration



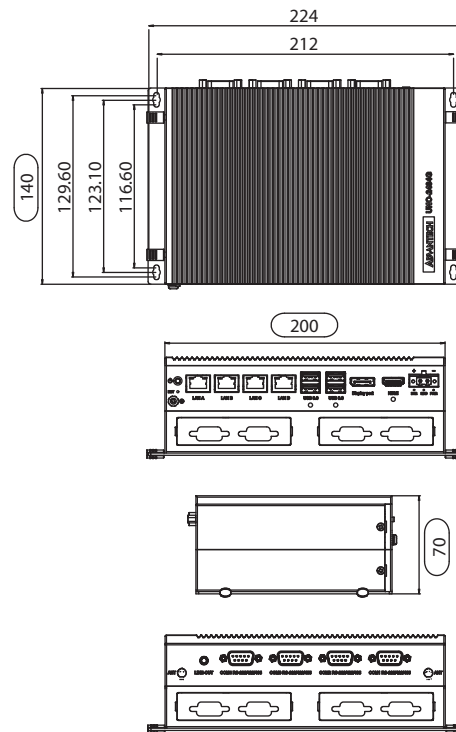
Dimensions

Unit: mm

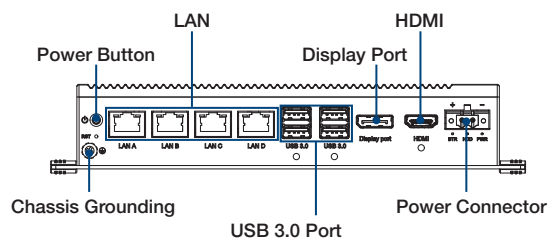
UNO-2484G Single stack version



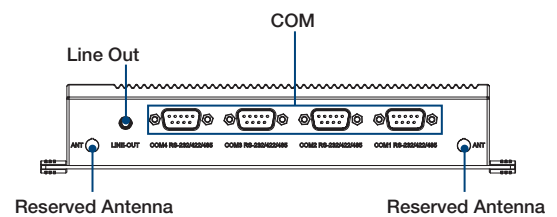
UNO-2484G double stack version



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 | |
|----------------------|------------------|------------------|----------------|--------|------------|-------|----------|-----|-----|-----|----------|
| 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 | | | | | | | | | |
| | Gen 6 | UNO-2484G-6531BE | | | | | | | | | i7-6600U |
| UNO-2484G-6331BE | | i5-6300U | | | | | | | | | |
| 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 | | | | | | | | | |
| | Gen 6 | UNO-2484G-6532BE | | | | | | | | | i7-6600U |
| UNO-2484G-6332BE | | i5-6300U | | | | | | | | | |
| | | UNO-2484G-6332BE | | | | | | | | | |

*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 | | | | | | | | | |
| | Gen 6 | UNO-2484G-6531AE | | | | | | | | | i7-6600U |
| UNO-2484G-6331AE | i5-6300U | | | | | | | | | | |
| 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 | | | | | | | | | |
| | Gen 6 | UNO-2484G-6532AE | | | | | | | | | i7-6600U |
| UNO-2484G-6332AE | i5-6300U | | | | | | | | | | |
| | | UNO-2484G-6332AE | | | | | | | | | |

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** 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)

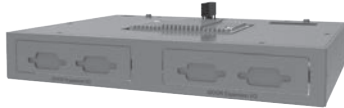
Please note: If some optional modules are offered with the system, additional system certificates may be required in certain regions/countries.

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 |

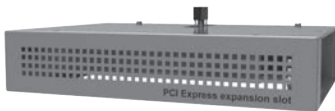
Ordering Information

| 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 |