UNO-2484G

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

NEW

Features

- Intel® Core™ i7/i5/i3 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
- Dedicated TPM2.0 microcontroller designed for hardware security
- 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

RoHS COMPLIANT 2002/95/EC · CCC · CE · FCC · c(UL)us LISTED E190881 I.T.E.

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: 1.6kg (3.53lbs)
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

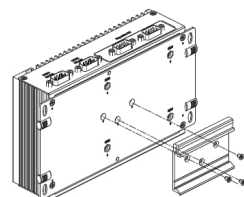|	
BIOS	AMI EFI64 Mbit
Watchdog Timer	Programmable 255 levels timer interval, from 1 to 255 sec
Hardware Security	TPM2.0
Processor	6th Gen Intel Core i7-6600U, 2.6GHz i5-6300U, 2.4GHz i3-6100U, 2.3GHz 7th Gen Intel Core i7-7600U, 2.8GHz i5-7300U, 2.6GHz i3-7100U, 2.4GHz
Memory	Built-in 8GB DDR4 2133 MHz
Graphics Engine	Intel® HD Graphics 620
Ethernet	LAN A: Intel i219-IT GbE, 802.1Qav, IEEE1588/802.1AS, 802 LAN B-D: Intel i210-IT 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 4 x full-size mPCIe slots for double stack version

I/O Interfaces

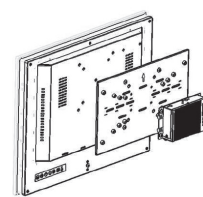|	
Serial Ports	4 x RS 232/422/485
LAN Ports	4 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T Fast Ethernet
USB Ports	4 x USB3.0
Displays	1 x HDMI supports 1920 x 1080 @60Hz, 1 x DP supports 3840 x 2160 @30Hz
Audio	Line-out
Power Connector	1 x 2 Pins, Terminal Block

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

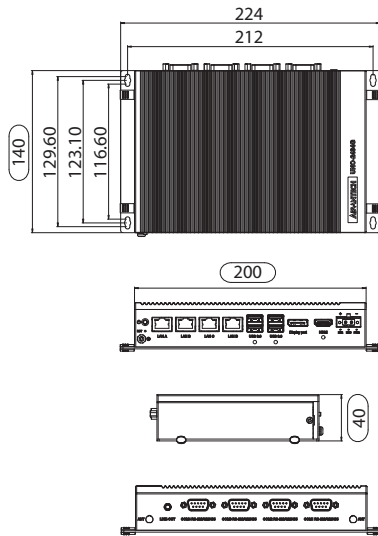## Installation Scenario
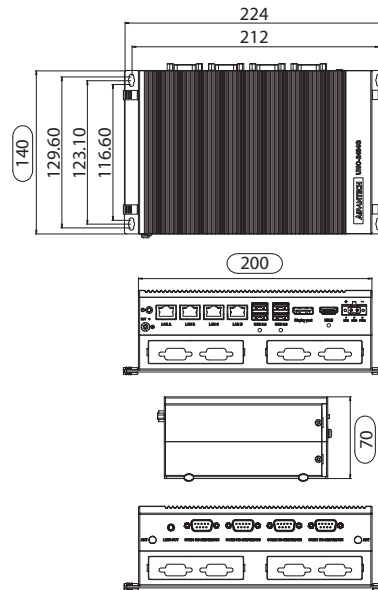
DIN-rail Mount Illustration
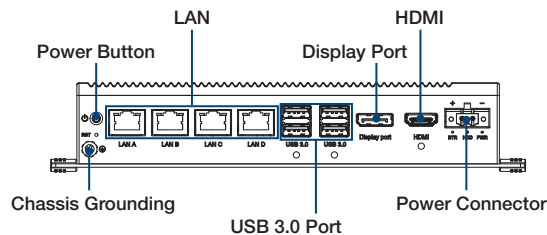

VESA Mount Illustration
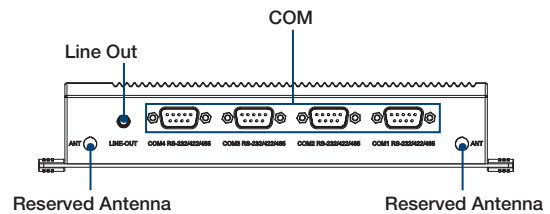
Dimensions

Unit: mm

UNO-2484G Single stack version

UNO-2484G double stack version

Front I/O View

Power Button | LAN | Display Port | HDMI
Chassis Grounding | USB 3.0 Port | Power Connector

Rear I/O Veiw

Line Out | COM
Reserved Antenna | Reserved Antenna

Ordering Information

	Ordering Part Number	CPU generation	CPU	mPCIe slot	iDoor	USB	COM	LAN
Single Stack	UNO-2484G-7731AE		i7-7600U	1	x	4	4	4
	UNO-2484G-7531AE	7 Gen.	i5-7300U					
	UNO-2484G-7331AE		i3-7100U					
	UNO-2484G-6731AE		i7-6600U					
	UNO-2484G-6531AE	6 Gen.	i5-6300U					
	UNO-2484G-6331AE		i3-6100U					
Double Stack	UNO-2484G-7732AE		i7-7600U	4	v			
	UNO-2484G-7532AE	7 Gen.	i5-7300U					
	UNO-2484G-7332AE		i3-7100U					
	UNO-2484G-6732AE		i7-6600U					
	UNO-2484G-6532AE	6 Gen.	i5-6300U					
	UNO-2484G-6332AE		i3-6100U					

iDoor Modules

- **PCM-24S2WF-BE**   802.11 a/b/g/n 2T2R w/ Bluetooth4.0, Half-size mPCIe, 2-port SMA
- **PCM-24S23G-AE**   6-band HSPA Cellular Module, GPS, SIM holder, SMAx2
- **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-AE**   1-Port Gigabit Ethernet, Intel® 82574L, mPCIe, RJ45
- **PCM-27D24DI-AE**   24-Channel Isolated Digital I/O w/ counter mPCIe, DB37

Contact Advantech for all compatible iDoor lists

Optional Accessories

- **96PSA-A150W24T2**   Power Adapter 150W
- **96PSA-A120W24T2**   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)

- **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

Second Stack Extension Module

- **UNO-2484G-EKAE**   UNO-2484G second stack extension module for supporting 4 iDoors
- **UNO-2484G-S2AE**   External swappable HDD extension kit (Dual HDD bay)
- **UNO-2484G-PCIEAE** UNO-2484G second stack extension module for supporting PCIe x4

(Note: 1. PCIe card support: max up to15W. 2. Storage need with wide temperature support 3. Operating Temperature: -20 - 50℃)

Operating System

UNO-2484G-6 series:
- **20703WE7PS0009**   WS7P X64 MUI V4.18 B023 Image
- **20703WX9HS0001**   WIN10 LTSC V6.04 for i7 version
- **20703WX9VS0001**   WIN10 LTSC V6.04 for i5/ i3 version

UNO-2484G-7 series:
- **20703WX9HS0000**   WIN10 LTSC V6.04 for i7 version
- **20703WX9VS0000**   WIN10 LTSC V6.04 for i5/ i3 version