UNO-2484V3

Intel Core Ultra (Arrow Lake) 5 & 7 Processor Modular Box PC with 4 x Ethernet, 6 x USB, 4 x M.2, HDMI 1.4, DP++



Features

- Intel Core Ultra (Arrow Lake) 5 & 7 Processor with DDR5 memory Slot*2 reserved
- 4 x Ethernet, 6 x USB, 4 x M.2, HDMI 1.4, DP++, 4 x RS232/422/485
- Optional 2nd extension stack with up to 2 x iDoor or 2 x HDD support for domain applications
- Compact fanless design
- External SIM slot and easy assemble RAM design for better user experience
- NVME support on M.2 M key slot with high data-transmission efficiency

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-2484V3 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 55 mm (7.8" x 5.6" x 2.1") for single stack
  200 x 140 x 90 mm (7.8" x 5.6" x 3.54") for double deck
- **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** 31W (Typical), 97W (Max), 109W (with 2nd stack)
- **OS Support** Win11 LTSC, Ubuntu 24.04

System Hardware

- **BIOS** AMI 256 Mbit SPI
- **Watchdog Timer** Programmable 255 levels timer interval, from 1 to 255 sec
- **Hardware Security** TPM2.0
- **Processor** Intel Core Ultra (Arrow Lake)
  Ultra 5 225U 12 Cores 4.8HGHz
  Ultra 7 255U 12 Cores 5.2GHz
- **Memory** 2 x Optional DDR5 5600 MHz, per channel support up to 32GB (thermal pad for 1st RAM already included into BOM; and refer to optional accessories list of thermal pad P/N for 2nd RAM add-on)
- **LED Indicators** LEDs for Power, NVME, RTC battery low
- **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
- **Expansion/Storage** 1 x M.2 B key (3052) (PCIEx1/USB 3.2/USB2.0)
  1 x M.2 E key (2230) (PCIEx2/USB2.0)
  2 x M.2 M key (2280) (PCIEx4)
  *2nd stack: 2 x 2.5" SSD (via UNO-2484V3-ES2A_support RAID 0/1; refer to User Manual for more details)

I/O Interfaces

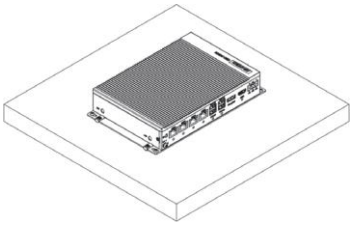
- **Serial Ports** 4 x RS 232/422/485, 50kbps – 115.2 kbps speed
- **LAN Ports** 1 x RJ45, 10/100/1000 Mbps
  3 x RJ45, 10/100/1000/2500 Mbps
- **USB Ports** 3 x USB 3.2 Gen2, 1 x USB2.0
- **Display** 1 x HDMI 1.4 (1920x1080@60Hz),
  1 x DP1.4 (3840x2160 @60Hz)
- **USB Type-C** 2 x USB Type C (1.5A), supports DP 1.4a & DP ALT mode (3840x2160@60Hz)
- **Power Connector** 1 x 2 pins, terminal block

Environment

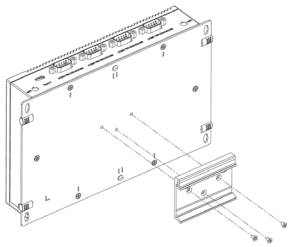
- **Operating Temperature** -20 ~ 60°C (-4 ~ 140°F) with 0.7 m/s airflow
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Relative Humidity** Operating, 95% RH @ 40°C, Non-Condensing;
  Non-Operating, 95% RH @ 60°C, Non-Condensing
- **Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- **Vibration Protection** Operating, IEC 60068-2-64, 3 Grms, random,
  5 ~ 500 Hz, 1hr/axis
- **Ingress Protection** IP20

Installation Scenario

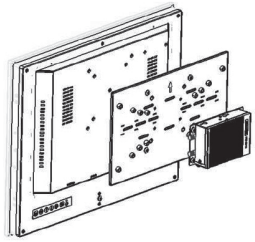
Stand/Wall Mount



DIN-rail Mount (Optional)



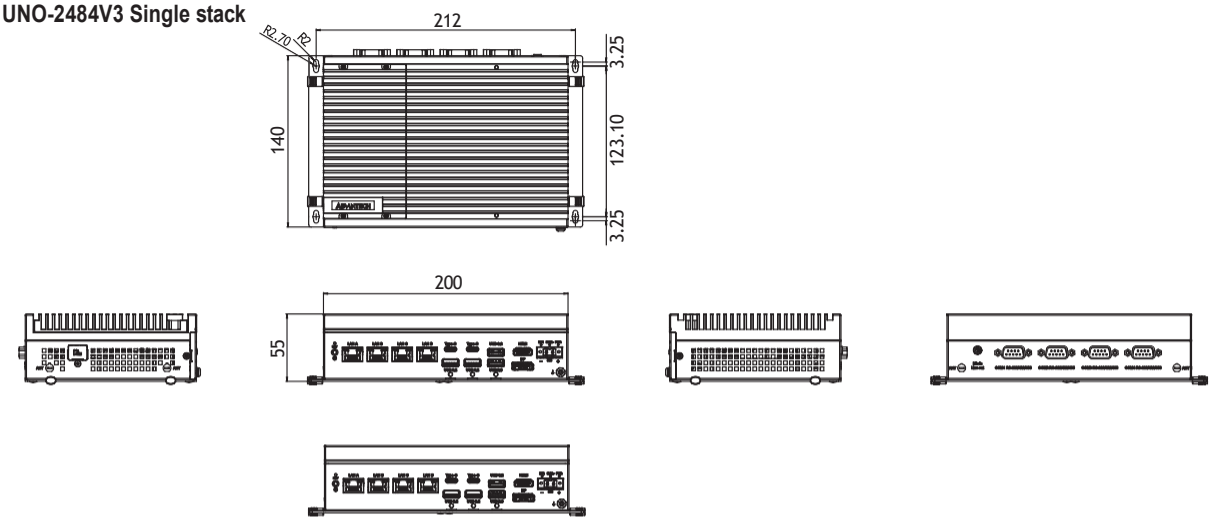
VESA Mount (Optional)



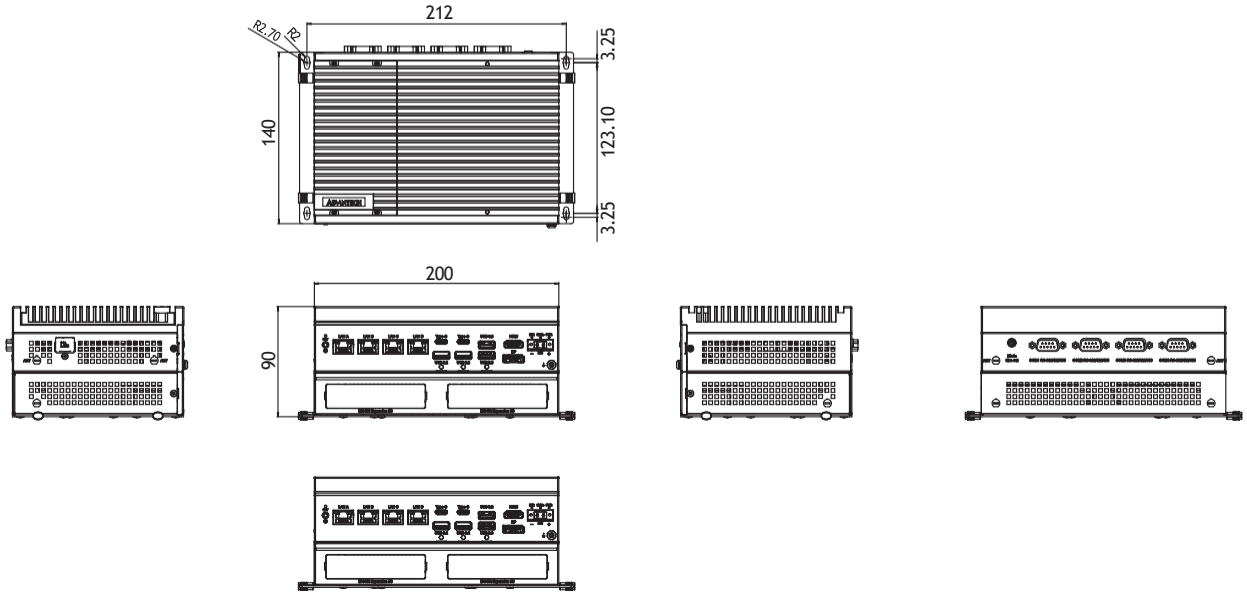
Dimensions

Unit: mm

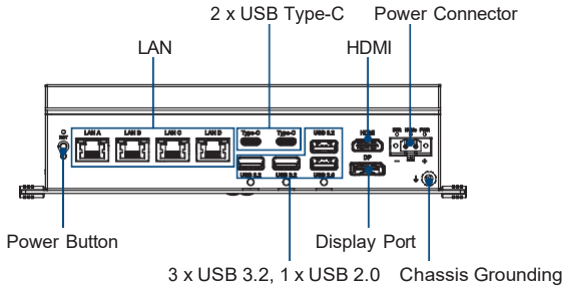
UNO-2484V3 Single stack



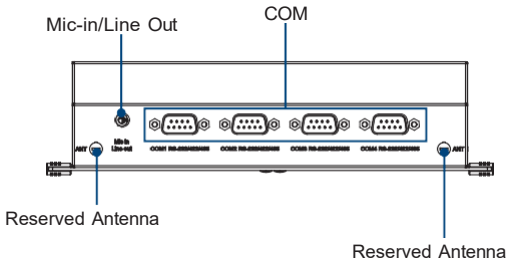
UNO-2484V3 Single stack + Expansion stack



Front I/O View



Rear I/O Veiw



Ordering Information

Ordering P/N	CPU	Memory	M.2	iDoor	USB	COM	LAN	Antenna hole
UNO-2484V3-U25N1A	Core Ultra 5 225U	optional DDR5	M key*2, B key*1, E key*1	2 (with 2nd stack UNO-2484V3-EI2A) 1 (with 2nd stack UNO-2484V3-EISA)	6	4	4	4 (Base unit)
UNO-2484V3-U27N1A	Core Ultra 7 255U							

Optional Accessories

- **98R12484300** UNO-2484V3 Thermal kit for M key
- **98R12484301** UNO-2484V3 Thermal kit for B key
- **98R12484302** UNO-2484V3 Thermal kit for E key
- **1990042331N000 (for 2nd RAM)** Thermal Pad 59x19.5x0.8mm TMA-6518 K=6.5
- **1990042505N000** Thermal pad for M.2 M key module
- **20701WLH1S0018** Img W11 LTSC x64 V7.01 B105 UNO-2484V3 High
- **20701WLV1S0021** Img W11 LTSC x64 V7.01 B105 UNO-2484V3 Value
- **96PSA-A120W24T2-4** Power Adapter 100-240V 120W 24V
- **96PSA-A150W24T2-4** Power Adapter 100-240V 150W 24V
- **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)
- **UNO-2000G-VMKCE** UNO-2000 VESA Mount Kit
- **UNO-200-DMKBE** UNO-200 series DIN-rail kit
- **UNO-2000-LKAE** Cable lockable kit 10 units/per pack
- **20701U24DS0003** Image EdgeLinux-24.04 V0.4 for UNO2 series)
- **Display** 1x HDMI 1. 4 (3840*2160@30Hz)

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-2484V3-EI2A

Second stack module for supporting 2 x iDoor on UNO-2484V3



Specifications

General	
Expansion	2 x iDoor, 4 x reserved antenna hole
Dimensions	200 x 140 x 35 mm
Weight	400g

Ordering Information

Ordering P/N	Description
UNO-2484V3-EI2A	UNO-2484V3 2nd stack for 2 iDoor

UNO-2484V3-ES2A

UNO-2484V3 2nd stack for 2 x storage



Specifications

General	
Expansion	2 x 2.5 SSD, 4 reserved antenna hole
Dimensions	200 x 140 x 35 mm
Weight	400g

Ordering Information

Ordering P/N	Description
UNO-2484V3-ES2A	UNO-2484V3 2nd stack for 2 x storage

UNO-2484V3-EISA

UNO-2484V3 2nd stack for 1 x storage & 1 x idoor



Specifications

General	
Expansion	1 x 2.5 SSD, 1x iDoor, 4 reserved antenna hole
Dimensions	200 x 140 x 35 mm
Weight	400g

Ordering Information

Ordering P/N	Description
UNO-2484V3-EISA	UNO-2484V3 2nd stack for 1 x storage & 1 x idoor