

# Ei-U2484

## Edge Intelligence System Powered By WISE-DeviceOn

NEW



### Features

- Integrated hardware plus software to build up edge-to-cloud applications
- Powered by WISE-DeviceOn for IoT device remote and operation management
- Extends cloud intelligence and analytics to edge devices
- Enhances cyber security with embedded TPM2.0 security chip
- Multiple mPCIe expansion slot for wireless module expansion
- Stackable 2nd layer for up to 4 iDoor extension
- WISE-PaaS/EdgeLink supports more than 200 PLC device

### Introduction

Ei-U2484 of edge intelligence computer is great solution to extend cloud intelligence and analytics to edge devices. IoT solutions, such as stream analytics, machine learning, image recognition, and other high-value AI modules, can be deployed from the Azure cloud to the edge to support diverse applications. All data are collected and delivered to cloud by WISE-EdgeLink and secured by key encryption technology from embedded security chip. With WISE-DeviceOn, the user is able to access to the Ei-U2484 and manage the system remotely, which also features plug-and-play functionality to deploy Advantech WISE-Marketplace I.App products.

### WISE-DeviceOn Function Highlights



#### Device Management

- Remote Monitoring & Control
- Device Onboarding & Registration



#### Connectivity Service

- Industrial Protocol Connectivity
- Plug-n-Play Peripherals



#### System Security

- McAfee Application Control
- Acronis Backup Recovery



#### Edge Intelligence

- Real-Time Data Processing
- Data Analysis & Filtering



#### Cloud Integration

- Pre-Configured with Azure, Ali, AWS
- Data Intelligence & AI Enabling



#### WISE-Marketplace Integration

- Over 200+ I.App Offerings
- Easy to Purchase and Deploy

### 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<sub>DC</sub>
- **Power Consumption** 55W (Typical), 95.2W (Max)
- **OS Support** Advantech Linux

#### System Hardware

- **BIOS** AMI EFI64 Mbit
- **Watchdog Timer** Programmable 255 levels timer interval, from 1 to 255 sec
- **Hardware Security** TPM2.0
- **Processor** 7th Gen Intel Core i5-7300U, 2.6GHz
- **Memory** Built-in 8GB DDR4 2133 MHz (support up to 16G)
- **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

- 1 x mSATA (shared with mPCIe slot) with 32G SSD
- 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
- **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, 1 x DP  
HDMI 1.4 (4096x2304@24Hz)  
HDMI 1.4 (1920x1080@60Hz)  
DP 1.2 (4096x2304@60Hz)  
DP 1.2 (1920x1080@60Hz)  
Line-out  
1 x 2 Pins, Terminal Block
- **Audio**
- **Power Connector**

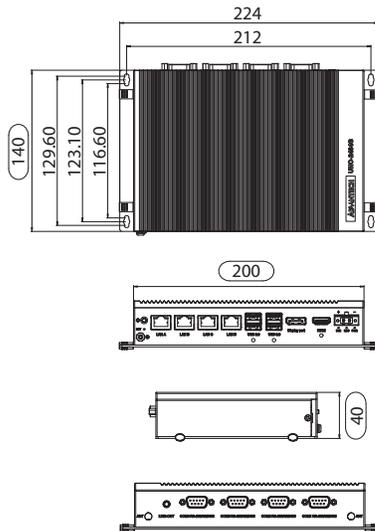
#### Environment

- **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

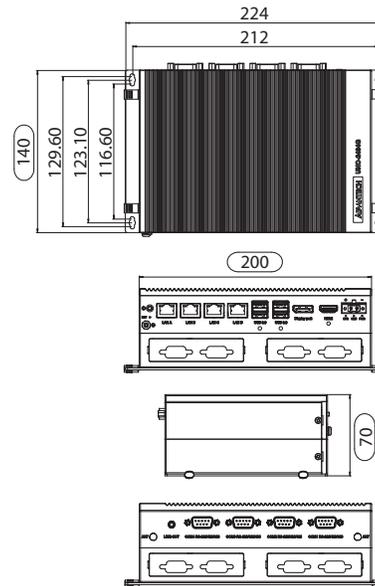
## Dimensions

Unit: mm

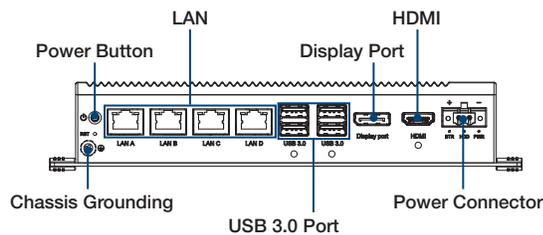
### Ei-U2484 Single stack version



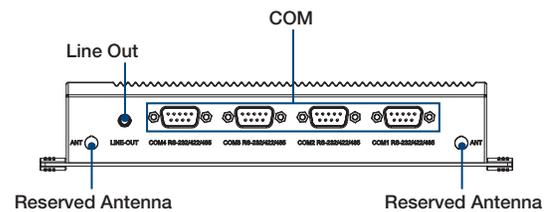
### Ei-U2484 double stack version



## Front I/O View

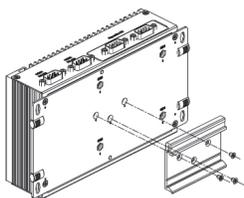


## Rear I/O View

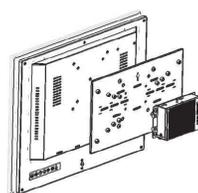


## Installation Scenario

### DIN-rail Mount Illustration



### VESA Mount Illustration



## Ordering Information

- Ei-U2484 UNO-2484G-7531AE W/ WISE-EdgeLink 8000 Tags

## 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

# Extended Module

## UNO-2484G-EKBE

2<sup>nd</sup> stack expansion module for support 4 x iDOOR (3 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

2<sup>nd</sup> stack expansion module for support 2 external swappable HDD/SSD Storage 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

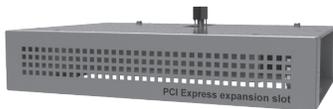
### Ordering Information

P/N	Description
UNO-2484G-S2AE	UNO-2484G external swappable HDD extension kit

## UNO-2484G-PCIEAE

2<sup>nd</sup> stack expansion module for support 1 PCIe4 card

Front view



Side View



### Specifications

General	
Ports	1 x PCIe4 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 PCIe4 expansion module