# Ei-U2484

### Regular-Size Modular Box Platform (MBP) with Intel<sup>®</sup> Core<sup>™</sup> i5-7300U Processor. 4 x GbE. 1 x mPCIe. 1 x HDMI. and 1 x DP

Extends cloud intelligence and analytics to edge devices

Multiple mPCIe expansion slots for easy expansion

Enhanced cyber security with an embedded TPM 2.0 security chip

Stackable second layer for up to 4 x iDoor expansion modules WISE-PaaS/EdgeLink with support for 200+ PLC devices Supports WISE-PaaS/DeviceOn and WISE-Marketplace



## 

### Introduction

The Ei-U2484 edge intelligence computer is built to extend cloud intelligence and analytics to edge devices. Ei-U2484 enables stream analytics, machine learning, image recognition, and high-value AI modules to be deployed from the Azure cloud to the edge in order to support diverse applications. All data are collected and delivered to the cloud by WISE-PaaS/ EdgeLink and secured by key encryption technology provided by the embedded security chip. With WISE-PaaS/DeviceOn software, users are able to access manage the system remotely and deploy WISE-Marketplace I.App products.

Features

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### WISE-DeviceOn Function Highlights

### **Device Management**

- Remote Monitoring & Control
- Device Onboarding & Registration

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### **Edge Intelligence**

 Real-Time Data Processing Data Analysis & Filtering

### **Specifications**

### General

- Certification
- Dimensions (W x D x H) 200 x 140 x 40 mm (7.8 x 5.6 x 1.6 in) for the
- Eorm Eactor
- Enclosure
- **Mount Options**
- Weight (Net)
- Power Requirement
- **Power Consumption OS Support**

### System Hardware

- BIOS

- Ethernet
- AMI EFI 64 Mbit Watchdog Timer Programmable timer with 255 interval levels, from 1 to 255 seconds Hardware Security **TPM2.0** 7th gen Intel<sup>®</sup> Core™ i5-7300U, 2.6 GHz Processor Built-in 8 GB DDR4 2133 MHz (supports up to 16 GB) Memory Graphics Engine Intel<sup>®</sup> HD Graphics 620 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

CE, FCC, UL, CCC, BSMI

Regular size with stackable design

Single stack: 1.4 kg (3.09 lb)

Double stack: 1.8 kg (3.97 lb)

55W (typical), 95.2W max.

200 x 140 x 70 mm (7.8 x 5.6 x 2.8 in) for the

Stand, wall, VESA (optional), DIN rail (optional)

single-stack model

double-stack model

Aluminum housing

10 ~ 36 VDC

Advantech Linux

low



# **Cloud Integration**

Pre-Configured with Azure, Ali, AWS

Industrial Protocol Connectivity

Data Intelligence & AI Enabling



### Storage

Expansion

### I/O Interfaces

- Serial Ports
- LAN Ports
- USB Ports
- Displays

Audio **Power Connector** 

### Environment

Shock Protection

Vibration Protection

- 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)
  - 10 ~ 95% RH @ 40 °C/104 °F, non-condensing

    - ~ 500 Hz, 1hr/axis (mSATA)
- Ingress Protection IP40



support) 1 x full-size mPCle slot for the single-stack model (supports only wireless iDoor technology) 4 x full-size mPCle slots for the double-stack model (1 x slot for wireless iDoor technology, 3 x slots for iDoor modules)

4 x RS 232/422/485

- 4 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T fast Ethernet 4 x USB3.0 1 x HDMI, 1 x DP HDMI 1.4 (4096 x 2304 @24 Hz) HDMI 1.4 (1920 x 1080 @60 Hz)
- DP 1.2 (4096 x 2304 @60 Hz) DP 1.2 (1920 x 1080 @60 Hz) Line-out
- 1 x 2-pin terminal block

- Relative Humidity
  - - Operating, IEC 60068-2-27, 50G, half sine, 11 ms Operating, IEC 60068-2-64, 3 Grms, random,

# Plug-n-Play Peripherals

**Connectivity Service** 



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- **WISE-Marketplace Integration** 
  - Over 200+ I.App Offerings

### Easy to Purchase and Deploy

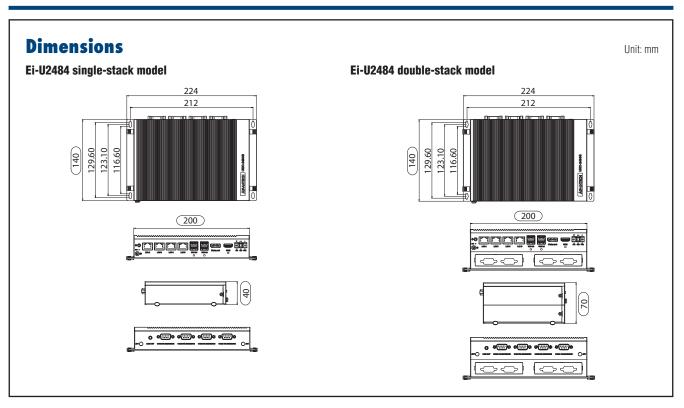
McAfee Application Control

Acronis Backup Recovery

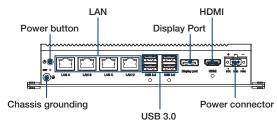
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System Security

### Ei-U2484

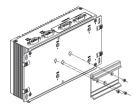


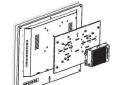
### Front I/O View



### **Installation Scenario**

**DIN-Rail Mount Illustration** 





VESA Mount Illustration

### **Ordering Information**

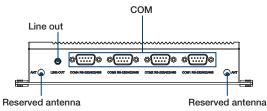
Ei-U2484

UNO-2484G-7531AE with WISE-PaaS/EdgeLink and 8000 tags

### **iDoor Modules**

- PCM-24S2WF-BE
- 802.11 a/b/g/n 2T2R with Bluetooth 4.0, half-size mPCle, 2-port SMA PCM-24S23G-AE
  - 6-band HSPA cellular module with GPS, SIM holder, 2 x SMA

**Rear I/O Veiw** 



- PCM-24R2GL-AE
- PCM-24D2R2-BE
- PCM-24D4R4-BE
- PCM-24R1TP-AE
- PCM-27D24DI-AE

1702002605

1702031801

1700000596

DB37 Contact Advantech for a complete list of all compatible iDoor modules.

mPCle, RJ45

DB37

### **Optional Accessories**

- 96PSA-A150W24T2 Power adapter 150W
- 96PSA-A120W24T2 Power adapter 120W 1702002600
  - Power cable, US plug, 1.8 M (industrial grade)
  - Power cable, EU plug, 1.8 M (industrial grade)
  - Power cable, UK plug, 1.8 M (industrial grade)
    - Power cable, China/Australia plug, 1.8 M (industrial grade) UNO-2000 VESA mount kit

2-port Gigabit Ethernet module with mPCle, RJ45

2-port isolated RS-232 module with mPCle, DB9

4-port non-isolated RS-422/485 module with mPCle,

1-port Gigabit Ethernet module with Intel® 82574L,

24-channel isolated digital I/O with counter, mPCle,

- UNO-2000G-VMKAE UNO-2484G DIN-rail kit
- UNO-2000G-DMKAE • UNO-2000-LKAE
  - Cable locking kit, 10 units/per pack
  - Online Download www.advantech.com/products

# **Expansion Modules**

# UNO-2484G-EKBE

Secondary expansion stack with support for 4 x iDoor modules (3 x mPCle slots)



# **UNO-2484G-S2AE**

Secondary expansion stack with support for 2 x swappable HDDs/SSDs



### **Specifications**

General	
Ports	4 x iDoor (3 x mPCle only)
Dimensions	200 x 140 x 40 mm/7.8 x 5.6 x 1.6 in
Weight	400 g/0.08 lb
Environment	
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)

### **Ordering Information**

Part Number	Description
UNO-2484G-EKBE	Secondary expansion stack with support for 4 x iDoor



General	
Ports	2 x external swappable HDD/SSD storage
Dimensions	200 x 140 x 40 mm/7.8 x 5.6 x 1.6 in
Weight	400 g/0.08 lb
Environment	
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)

### **Ordering Information**

Part Number	Description
UNO-2484G-S2AE	Secondary expansion stack with support for 2 x external swappable HDDs/SSDs

# **UNO-2484G-PCIEAE**

Secondary expansion stack with support for 1 x PCIe x4 card

Front view



Side view



### **Specifications**

General	
Ports	1 x PCle x4 slot for half-size PCle card (167 x 111 mm)
Dimensions	200 x 140 x 40 mm/7.8 x 5.6 x 1.6 in
Weight	400 g/0.08 lb
Power consumption	15W max.
Environment	
Operating Temperature	$0 \sim 50 \circ C/32 \sim 122 \circ E$ (depending on expansion card)

### **Ordering Information**

Part Number	Description
UNO-2484G-PCIEAE	Secondary expansion stack with PCIe x4