ESRP-CSS-U2372

Azure IoT Edge Starter Kit with UNO-2372

NEW

Features

- Extends cloud intelligence and analytics to edge devices
- Boosts productivity and response times with data insights
- Advantech Edgelink for downlink and uplink support
- Offers secure cloud communication and edge intelligence
- Compact, robust, fanless and cable-free system with high stability

Introduction

The ESRP-CSS-U2372 edge intelligence computer is a 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 the cloud by WISE-EdgeLink. It supports more than 200 PLC devices for collecting data and features plug-and-play functionality which reduces software development time and eliminates the gap between OT and IT.

Feature Details

Extends cloud Intelligence and analytics to edge devices

Stream analytics, OPC UA publisher, Modbus, and other high-value AI modules can be deployed from the cloud to the edge to support diverse applications.

Boosts productivity and response times with data insights

Local data processing enables immediate decision making and reduces bandwidth costs by minimizing the data transmitted from local devices to the cloud.

Advantech Edgelink for downlink and uplink support

Edgelink supports more than 200 PLC protocol drivers for collecting data from devices and features plug-and-play functionality which reduce software development time.

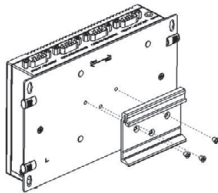### Secure cloud communication and edge intelligence

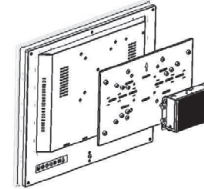Includes Azure IoT Edge Security Daemon and onboard TPM.

Specifications

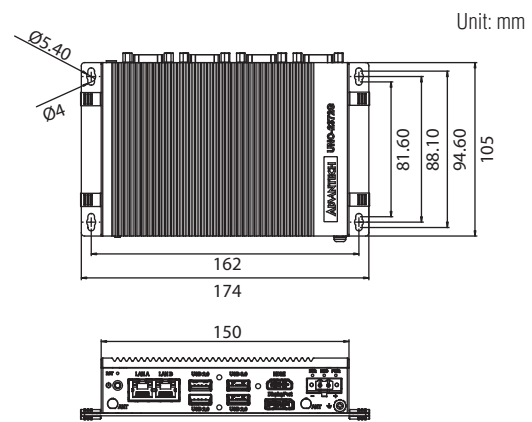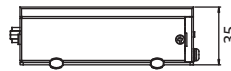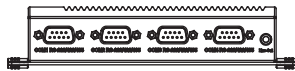|		
System Hardware	Processor	Intel® Celeron® Quad Core J3455 1.5 GHz (max. turbo 2.3 GHz)
	Memory	Built-in 4GB DDR3L, 1866 MHz
	Ethernet	Intel® i210, IEEE 802.1Qav, 802.1AS, 802.3az
	Hardware Security	TPM 2.0
	Storage	64G SSD
	Expansion	2 x Full-size mPCIe slots
	Bios	AMI UEFI (64 Mbit)
	Watchdog Timer	Programmable timer with 255 intervals (1 ~ 255 sec)
	LED Indicators	Power, RTC battery, LAN (active, status), and HDD
I/O Interfaces	Serial Ports	4 x RS-232/422/485, DB9, 50 ~ 115.2 kbps
	LAN Ports	2 x RJ-45, 10/100/1000 Mbps IEEE 802.1u 1000BASE-T Fast Ethernet
	USB Ports	4 x USB 3.0
	Displays	1 x HDMI 1.4b (3840 x 2160 @30 Hz) 1 x DP 1.2 (3840 x 2160 @60 Hz)
	Power Connector	1 x 2-Pin, Terminal Block
Gerneral	Certification	CE, FCC, UL, CCC, BSMI
	Dimensions (W x D x H)	Single stack: 150 x 105 x 35 mm
	Form Factor	Small size
	Enclosure	Aluminum housing
	Mounting	Stand, wall, VESA (optional), DIN-rail (optional)
	Weight(Net)	Single-stack model: 0.8 kg (1.8 lb)
	Power Requirement	10 ~ 36 V_{DC}
	Power Consumption	18.36W (typical)
Software	Operating System	Ubuntu 18.04, Kernel 4.15.0-43-generic
	Application	AuthServer r3678 EAPI v1.0.9 EdgeLink-Linux v2.7.3 EdgeManager r3668 Moby engine v3.0.2 appupdate e71082e5 iotedge v1.0.8-2 iotedgecli r3163 wise-agent 1.4.32.0
Environment	Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F) @ 5 ~ 85% RH with 0.7 m/s airflow
	Storage Temparature	-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, 2 Grms, random, 5 ~ 500Hz, 1hr/axis (mSATA) Operating, IEC 60068-2-64, 0.75 Grms, random, 5 ~ 500Hz, 1hr/axis (HDD)
	Ingress Protection	IP40

Installation Scenario

DIN-Rail Mount Illustration

VESA Mount Illustration

Dimensions

Single Stack

Unit: mm

Ø5.40
Ø4
81.60
88.10
94.60
105
162
174
150
35

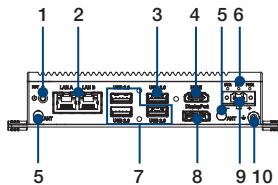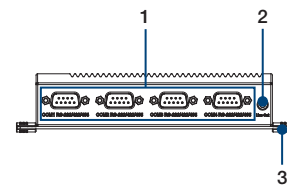## Front I/O View

Single Stack

1. Power Button
2. RJ-45 LAN
3. USB
4. HDMI
5. Reserved Antenna
6. BTR, HDD & PWR LED Lights
7. USB
8. DisplayPort
9. Power Connector
10. Chassis Grounding

Rear I/O View

Single Stack

1. RS-232/422/485
2. Line-Out
3. Rubber Stopper

Ordering Information

- **ESRP-CSS-U2372**   Azure IoT Edge Starter Kit with UNO-2372

Optional Accessories

Operating system

- **96PSA-A60W24T2-3**   A/D 100 ~ 240V 60W 24V C14 cord end terminal power adapter
- **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-DMKAE**   UNO-2000 DIN-rail kit
- **UNO-2000G-VMKAE**   UNO-2000 VESA mount kit
- **UNO-2000-LKAE**   Cable locking kit, 10 units per pack