

UNO-430-E1A

All-Around IP69K/IP68 Waterproof Edge Intelligence Gateway with both M.2 3052/3042 key B, M.2 2230 key E, GPS support, TPM 2.0



Features

- Intel® Atom E3950 Quad-core processor with 8G DDR3L memory
- Both M.2 3052/3042 key B, M.2 2230 key E, GPS support
- 2 x GbE, 2 x RS-422/485 (isolated), 1 x RS-232 (console), M.2 2242 key B, TPM2.0
- IP69K and IP68-rated protection from water and dust
- -40~70°C wide operating temp design for harsh environment
- Easy maintenance with front door and cable gland design saves special waterproof cable wiring effort
- Bi-direction wall mount support

Introduction

Advantech UNO-430 is a highly ruggedized gateway featured with IP69K/68 Water proof and -40~70°C wide operating temp, which is suitable for general outdoor and indoor application to withstand harsh environment, e.g. Roadside, Food & Beverage industry. IP69K withstand high-pressure, high-temperature jet sprays, steam-cleaning, or washdowns. IP68 withstand immersion in water with a depth under long period. Easy maintenance with front door and cable gland design saves special waterproof cable wiring effort. Utilizing standard M.2 2230 Wi-Fi and M.2 3052/3042 5G/ LTE connectors housed in UNO-430, these wireless connectivity support are ideal for industrial application.

Specifications

General

- **Certification** CE, FCC, UL, CCC
- **Dimensions (W x D x H)** 200 x 200 x 68mm
- **Form Factor** Square Form
- **Enclosure** Aluminum Housing
- **Mounting** Wall mount
- **Weight (Net)** 3kg
- **Power Requirement** 10 ~ 36V_{DC}
- **Power Consumption** 15W (Typical), 30W (Max)
- **OS Support** Microsoft® Windows 10 Ent. LTSC, Advantech Linux (Ubuntu 18.04)

System Hardware

- **BIOS** AMI UEFI64 Mbit
- **Watchdog Timer** Programmable 255 levels timer interval, from 1 to 255sec
- **Hardware Security** TPM2.0
- **Processor** Intel® Atom Quad Core E3950 2GHz
- **Memory** Built-in 8GB DDR3L 1333MHz
- **Graphics Engine** Intel® HD Graphics 505
- **Ethernet** Intel® i210-IT GbE, 802.1Qav, IEEE1588/802.1as, 802.3az
- **LED Indicators** Power, Storage, LTE, WIFI, PL
- **Storage** 1 x M.2 (Type 2242) key B support
- **Communication** 5G/LTE: 1 x M.2 (Type 3052/3042) key B support
WIFI/Bluetooth: 1 x M.2 (Type 2230) key E support
LTE: 1 x micro USB support (for USA Multitech Dragonfly™ card support)
- **Cable Gland** M32 cable gland, OD 5~6.6 mm
M12 cable gland, OD 4.5~6.6 mm

I/O Interfaces

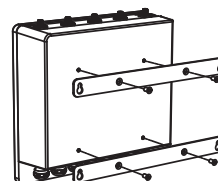
- **Serial Ports** 2 x RS-422/485 (isolated), 50 ~ 1.5Mbps
1 x RS-232 (console), 50 ~ 1.5Mbps
- **LAN Ports** 2 x RJ45, 10/100/1000 Mbps IEEE 802.3u, 1000BASE-T Fast Ethernet
- **USB Ports** 1 x internal USB 2.0
- **Power Connector** 1 x 3 Pins, Terminal Block

Environment

- **Operating Temperature** -40 ~ 70°C (-40 ~ 158°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, 11ms
- **Vibration Protection** Operating, IEC 60068-2-64, 2Grms, random, 5 ~ 500Hz, 1hr/axis
- **Ingress Protection** IP69K/ IP68

Installation Scenario

Wall Mount Illustration

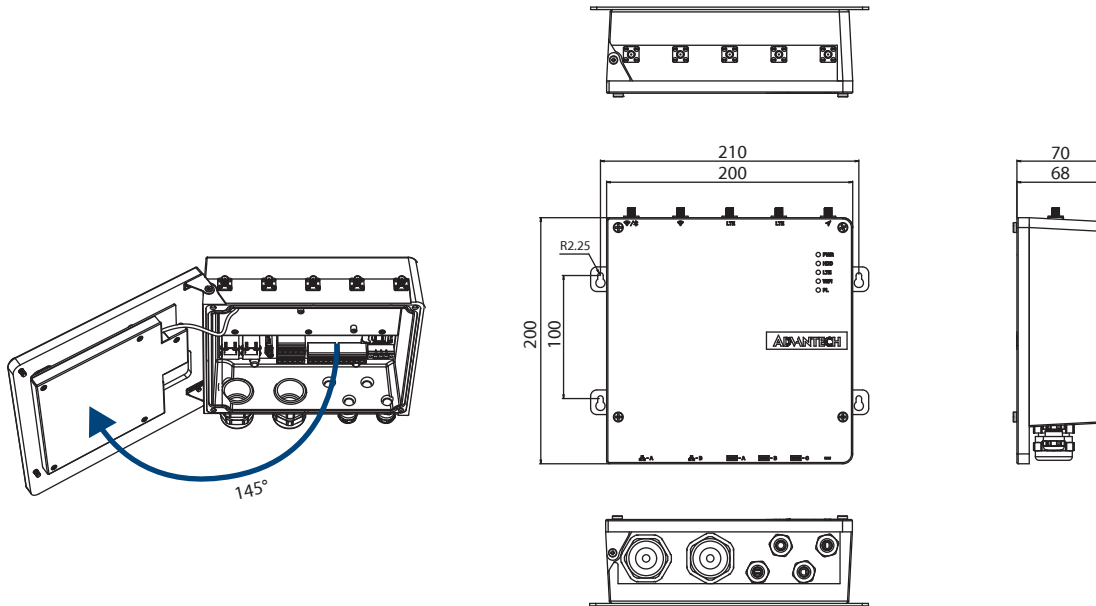


Ordering Information

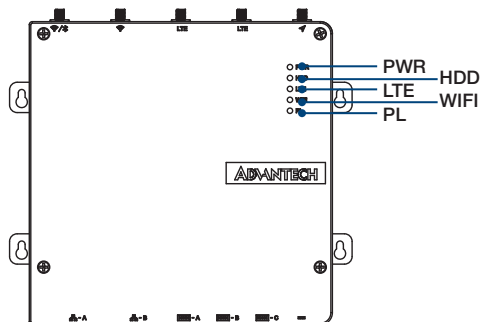
- **UNO-430-E1A** Intel Atom E3950 2GHz, 8GB, 2 x GbE, 3 COM, TPM2.0, M32/ M12 waterproof cable gland

Dimensions

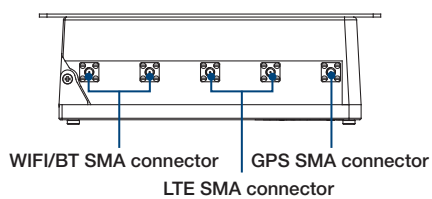
Unit: mm



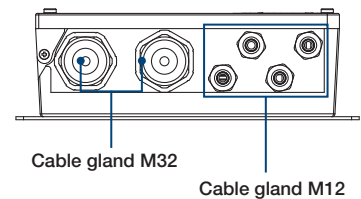
Front LED View



Top I/O View



Bottom I/O View



Box open I/O View

