

# UNO-430-E1A

## Waterproof Outdoor Data Gateway with All-Around IP69K/IP68 Rating

NEW



### Features

- Intel® Atom™ E3950 quad-core processor with 8GB of DDR3L memory
- 2 x Gigabit Ethernet, 2 x RS-422/485 with isolation protection, 1 x RS-232 console port
- All-around IP69K/68 rating for protection from water and dust ingress
- Wide operating temperature range (-40 ~ 70 °C/-40 ~ 158 °F)
- Built-in TPM 2.0 for hardware-based security
- 1 x M.2 (E-key) and 1 x M.2 (B-key) expansion sockets for integrating CE-RED-compliant Wi-Fi, LTE, and GPS wireless communication modules
- Enclosure with front door and cable gland design ensures easy installation and maintenance

### Introduction

Designed for operation in harsh outdoor/industrial environments, UNO-430-E1A features all-around IP69K/68-rated ingress protection and cable gland I/O connectors to provide a truly watertight solution that can withstand the most demanding applications. The waterproof enclosure features a front door for easy access and maintenance as well as a cable gland that offers further ingress protection. This eliminates the need for a waterproof cabinet, cables, or wiring, which enables customers to use the UNO-430 gateway as a standalone data acquisition gateway. Moreover, with the provision of standard M.2 2230 Wi-Fi and M.2 3052/3042 5G/LTE sockets, the UNO-430 gateway offers expandable wireless connectivity for remote communication and data transfers.

### Specifications

#### General

- **Certification** CE, FCC, UL
- **Dimensions (W x D x H)** 200 x 200 x 68 mm/7.87 x 7.87 x 2.67 in
- **Form Factor** Square
- **Enclosure** Aluminum housing
- **Mount Options** Wall mount
- **Weight (Net)** 3 kg/6.61 lb
- **Power Requirement** 10 ~ 36 V<sub>DC</sub>
- **Power Consumption** 21W (typical), 27W (max.)
- **OS Support** Microsoft® Windows 10 Ent. LTSC, Advantech Linux (Ubuntu 18.04)

#### System Hardware

- **BIOS** AMI UEFI (64 Mbit)
- **Watchdog Timer** Programmable timer with 255 intervals (1 ~ 255 sec)
- **Hardware Security** TPM 2.0
- **Processor** Intel® Atom® E3950 quad core, 1.6GHz (up to 2GHz)
- **Memory** 8GB of DDR3L, 1600MHz
- **Graphics Engine** Intel® HD Graphics 505
- **Ethernet** Intel® i210-IT GbE, IIEEE802.1AS, 802.3az
- **LED Indicators** Power, Storage, LTE, Wi-Fi, Programmable LED
- **Storage** 1 x M.2 2242 B-key (SATA signal)
- **Communication** 1 x M.2 (E-key)(PCIe/USB2.0 signal) socket for 2230 Wi-Fi/Bluetooth module expansion  
1 x M.2 (B-key)(USB2.0/USB3.0 signal) socket for 3042/3052 LTE/5G module expansion  
1 x socket (USB signal) for MultiTech Dragonfly™ card
- **Internal Maintenance Interface** 1 x USB 3.0, 1 x USB 2.0, 1 x DP

#### I/O Interface

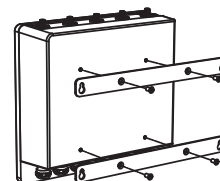
- **Serial Ports** 2 x RS-422/485, 50 ~115.2 kbps (terminal block with 2500V<sub>DC</sub> isolation protection)  
1 x RS-232, 50 ~115.2 kbps (terminal block, console port)
- **LAN** 2 x RJ45, 10/100/1000 Mbps IEEE 802.3u, 1000BASE-T Fast Ethernet
- **Power Connector** 1 x 3-pin terminal block
- **Cable Gland** 2 x M32 cable gland for Ethernet cable (cable size OD 5 ~ 6.6 mm/0.19 ~ 0.25 in)  
4 x M12 cable gland for serial cable and power cable (cable size OD 4.5 ~ 6.5 mm/0.17 ~ 0.25 in)

#### 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/104 °F, 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

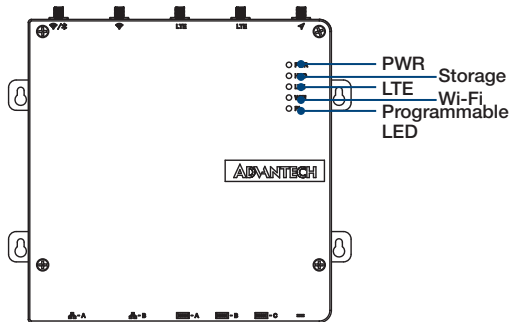
### Installation Scenario

#### Wall Mount

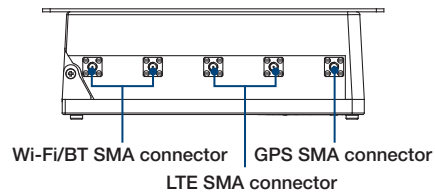




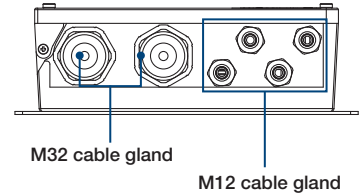
### Front LED



### Top I/O



### Rear I/O



### Internal I/O

