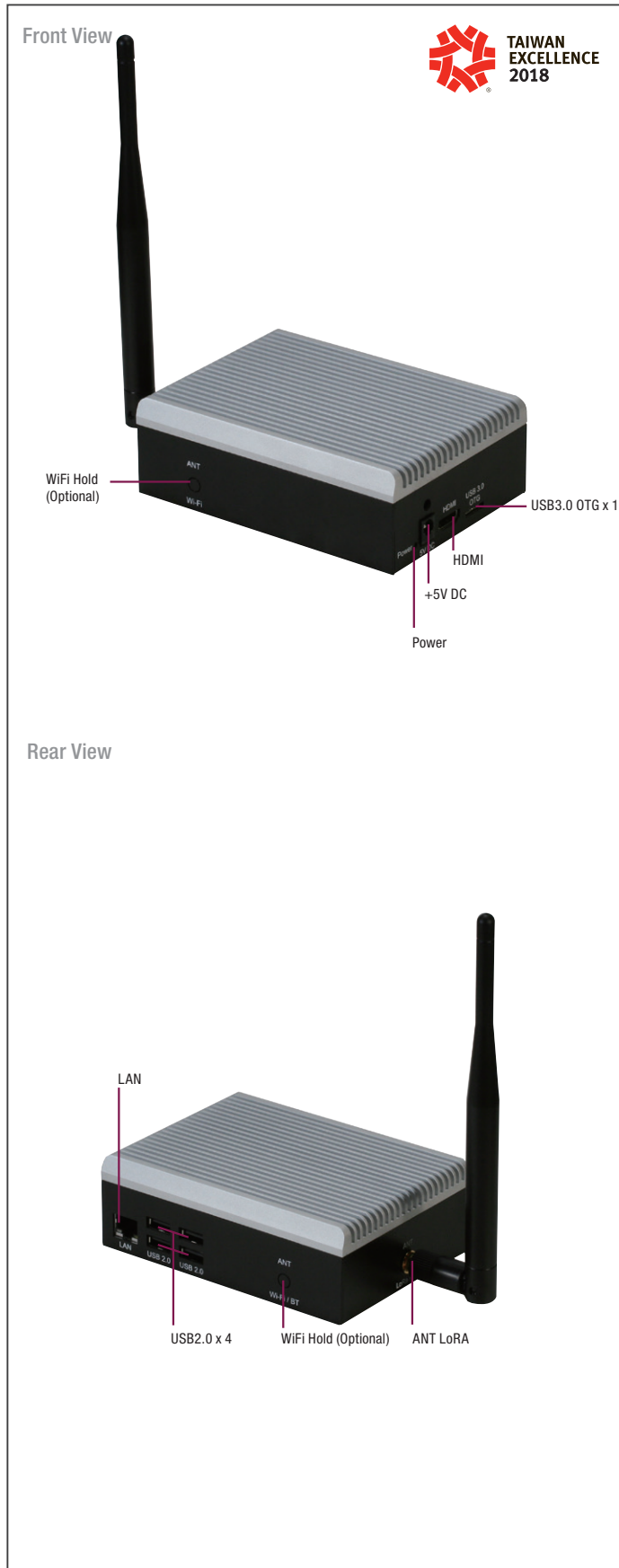


# UP LoRa Edge Computing

LoRa Certified Intel® Based Edge Computing and Network Server



## Features

- Intel® Atom™ x5-Z8350 SOC
- Onboard 2 GB DDR3L Memory, 32GB eMMC Storage
- Gigabit LAN x 1, HDMI x 1
- USB 2.0 x 4, USB 3.0 OTG x 1
- LoRa Function Supported
- Supports Frequency Band 868 MHz



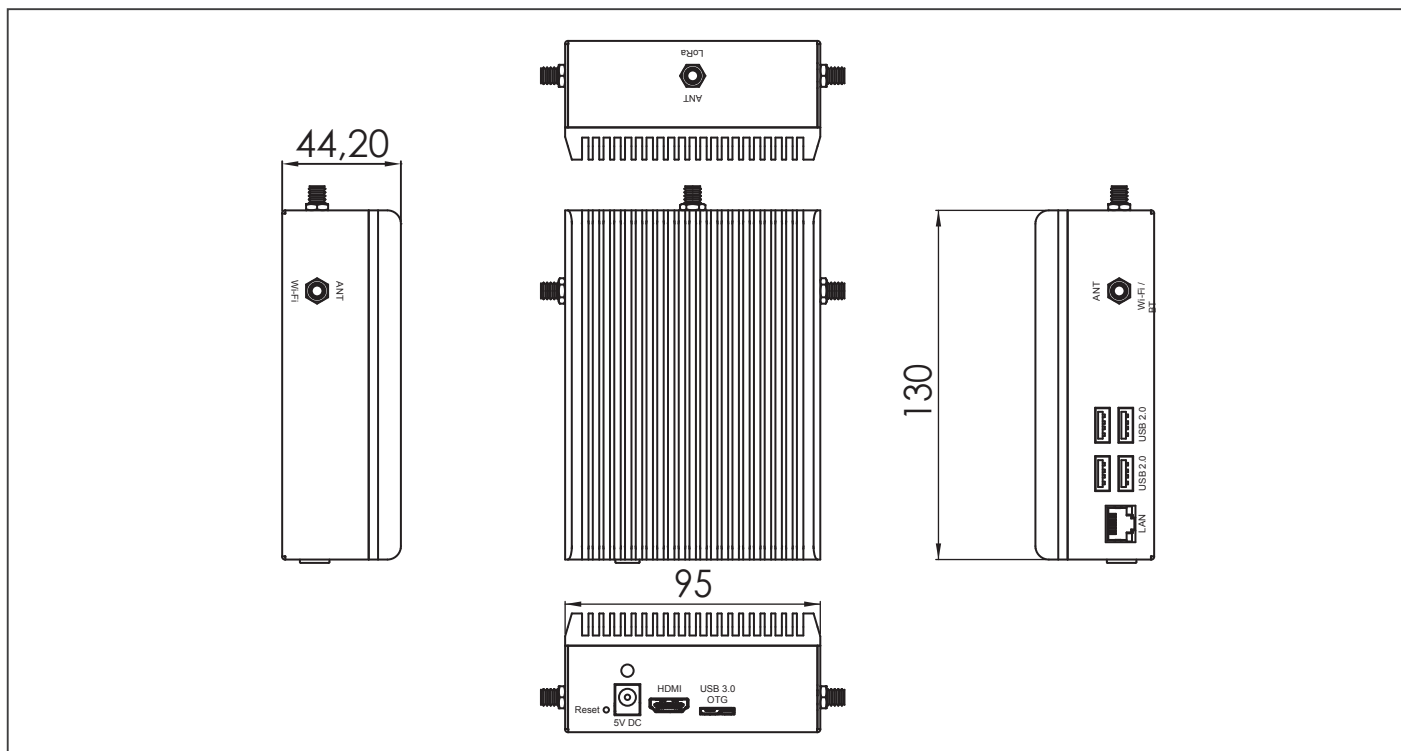
## Specifications

| System                 |  |
|------------------------|--|
| CPU                    | Intel® Atom™ x5-z8350 SoC  |
| Memory                 | Onboard 2GB DDR3L-1600 memory  |
| Graphics               | Intel® HD 400 Graphics ,12 EU GEN 8, up to 500MHz<br>Support DX*11.1/12, Open GL*4.2, Open CL*1.2 OGL<br>ES3.0, H.264, HEVC (decode), VP8  |
| Storage                | 32GB eMMC on board x 1   |
| Ethernet               | Realtek 8111G x 1  |
| Audio                  | HDMI Audio x 1   |
| USB                    | USB2.0 x 4, USB 3.0 OTG x 1  |
| LoRa function          | Frequency band 868MHz<br>Sensitivity down to -138 dBm<br>Tx/Rx front-ends x 2<br>RF interface optimized to 50Ω<br>Output power level up to 20 dBm<br>Range up to 15 km (Line of Sight) |
| I/O Placements         |  |
| External I/O Connector | RJ45 Connector x 1<br>HDMI Connector x 1<br>USB 2.0 Stack Connector x 2<br>USB 3.0 OTG x 1<br>DC connector x 1   |
| Others                 |  |
| Power                  | 5V DC Only   |
| Form Factor            | 130 mm x 95 mm x 44.2 mm   |
| Operating Temperature  | 0°C - 50°C   |
| Operating Humidity     | 0% - 90% relative humidity, non-condensing   |
| Certification          | CE, FCC  |
| OS Support             | Linux (UbiLinux, Ubuntu, Yocto)  |

# UP LoRa Edge Computing

## Dimension

Unit: mm



## Ordering information:

- **RE-AIOT-ILRA01-A10-CA40232EU**  
UP LoRa Edge System, AIOT-ILRA01 2/32 with power supply
- **RE-AIOT-ILRA01-A10-CA40232EU-NWK-UP**  
UP LoRa Edge System AIOT-ILRA01 2/32 + OS restore key of The Things Network, with power supply
- **RE-AIOT-ILRA01-A10-CA40232EU-IOT-UP**  
UP LoRa Edge System AIOT-ILRA01 2/32 + OS restore key of ResIoT, with power supply
- **RE-AIOT-ILRA01-A10-CA40232EU-IIB-UP**  
UP LoRa Edge System AIOT-ILRA01 2/32 + OS restore key of IoT in a Box, with power supply