



FEATURES

- IoT RAIN RFID reader with Ethernet, Wi-Fi, and USB connectivity
- UHF RAIN RFID reader/writer
 - One internal dual linear polarization antenna
 - Two RF ports for external antenna connection
- 2.4 GHz 802.11n Wi-Fi radio
- Powered by Power over Ethernet (PoE)

COMMUNICATION

- One Ethernet PoE 802.11af port
- One USB port for data and
- Wi-Fi for data communication and remote management
- GPIO: 1x GPI and 2x GPOs

PROTOCOLS

- MQTT(s)
- Sockets
- Serial
- HTTP(s) REST
- Websockets

The Identix EM300H is a compact and robust IoT RAIN RFID reader designed for outdoor applications, vehicle control, and demanding environments. It features a dual linear polarization internal antenna with 7 dBi gain and two additional SMA ports for external antennas, providing high performance and flexibility where reliability is essential.

With an IP67 protection rating, it is ideal for outdoor use, capable of withstanding dust, moisture, and severe weather conditions. Its interfaces include Ethernet PoE, Wi-Fi (802.11n 2.4 GHz), Bluetooth BLE 5.0, and USB, ensuring broad compatibility with various networks and systems.

Compatible with protocols such as MQTT and HTTP, the EM300H enables efficient integration with corporate systems. It also supports offline operation with an internal 8MB buffer, storing local readings during network failures, with subsequent automatic synchronization.

Supports automatic decoding of the main GS1 TDS standards, including SGTIN, SSCC, GRAI, and GIAI, enabling direct extraction of identifiers and their conversion into readable formats such as EAN-13 or custom strings.

Equipped with intelligent data filtering algorithms, the EM300H is ideal for applications such as vehicle access control, gatehouses, logistics yards, and fleet management, ensuring fast, accurate, and reliable reading of UHF RAIN RFID tags in demanding environments.

Technical Specifications

UHF RFID Reader/Writer ISO18000-63

- Operating Frequency: 865 MHz to 928 MHz
- Maximum Transmission Power: +30 dBm
- Reading Speed: Over 300 tags/s (M4)
- Maximum sensitivity: -73 dBm (M8)
- One internal dual linear polarization antenna (H+V)
- Two RF ports (SMA-F) for external antenna connection
- Data communication via Ethernet, Wi-Fi, or USB
 - Communication protocols: MQTT(s), sockets, WebSockets, and HTTP(s)
 - USB: keyboard emulation (HID), RAW ASCII

General

- One PoE Ethernet port 802.3af (15 W)
- Bluetooth 5 radio and 2.4 GHz 802.11n Wi-Fi with a maximum speed of 150 Mbps
- Integrated RGB LED and buzzer for feedback
- One USB port for communication and power supply
 - Maximum power consumption of 10 W when operating at +30 dBm output power
 - E-fuse: electronic fuse for overvoltage and overcurrent protection
 - Integrated sensors for continuous voltage and current monitoring
- One opto-isolated GPI and two opto-isolated GPOs
- Weight: 450 g
- Dimensions: 145 x 85 x 25 mm
- Environmental protection rating: IP67
- Operating temperature: -20°C to +65°C
- Certifications: Anatel and FCC

For more information, visit

identx.com