



FEATURES

- IoT RAIN RFID reader with Ethernet, Wi-Fi, and USB connectivity
- UHF RAIN RFID reader/writer
 - Four RF ports for external antenna connection
- 2.4 GHz 802.11n Wi-Fi radio
- Power supply via PoE or USB

COMMUNICATION

- One PoE 802.11af Ethernet port
- One USB port for data and power
- 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 EM-series 300 is a compact, high-performance IoT RAIN RFID reader equipped with four RF (SMA) ports for connecting external antennas. All antennas can operate simultaneously with independent radio configurations, providing flexibility for various application scenarios.

Compatible with a wide range of network and USB communication protocols, including MQTT, HTTP, and others, EM-series enables rapid and efficient integration with diverse corporate systems and business applications.

Optionally, the EM-series can operate in “keyboard wedge” mode (USB HID keyboard emulation), facilitating integration with software compatible with barcode readers. Furthermore, the device can be configured to automatically decode RFID tags encoded in SGTIN-96, converting them directly to the EAN-13 barcode standard.

The EM-series also offers advanced and exclusive features for operation in POS environments, including intelligent data filtering algorithms that ensure fast, precise, and automatic capture of items identified with UHF RAIN RFID tags.

Technical Specifications

UHF ISO18000-63 RFID reader/writer

- Operating frequency: 865 MHz to 928 MHz
- Maximum transmission power: +30 dBm
- Reading speed: over 300 tags/s (M4)
- Maximum sensitivity: -73 dBm (M8)
- Four 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 Ethernet PoE 802.11af port (15W)
- 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 signaling
- 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 GPI and two opto-isolated GPOs
- Weight: 250 g
- Dimensions: 145 x 85 x 25 mm
- Environmental protection rating IP64
- Operating temperature: -20 °C to +65 °C
- Certifications: Anatel and FCC

For more information, visit

identix.com