



FEATURES

- IoT RAIN RFID reader/writer with USB, Wi-Fi, and BLE connectivity
 - Integrated antenna for reading tags at distances of up to six meters (depending on tag type)
- 2.4 GHz 802.11n Wi-Fi radio
- USB-powered

COMMUNICATION

- One USB port for data and power
- Wi-Fi for data communication and remote management
- BLE – Bluetooth Low Energy

PROTOCOLS

- MQTT(s)
- Sockets
- Websockets
- Identix RAW mode (USB)
- HTTP(s) REST

The Identix DR-pad is an ultra-compact, high-performance IoT RAIN RFID reader equipped with a high-gain integrated RFID antenna, designed for applications that require fast, accurate, and localized reading.

Supporting a wide range of communication protocols over network and USB, including MQTT, HTTP, Websockets, among others, the DR-pad enables agile and simplified integration with various business systems and platforms.

Its integrated antenna features circular polarization, 8.5 dBiC gain, and a high-intensity magnetic field, making it ideal for short-range applications such as points of sale (POS), price inquiry kiosks, and product verification stations, among others.

The DR-pad can optionally operate in 'keyboard wedge' mode (keyboard emulation via USB HID), facilitating use with software compatible with barcode readers. Furthermore, the device can be configured to automatically decode RFID tags in the SGTIN-96 standard, converting the data to the EAN-13 barcode format.

Designed for use in POS and retail environments, the DR-pad features unique capabilities such as an optical sensor for automatic reading activation and intelligent filtering algorithms, ensuring efficient, rapid, and accurate capture of items identified with UHF RAIN RFID tags.

Technical Specifications

RFID UHF Reader/Writer ISO18000-63

- Operating frequency: 865 MHz to 928 MHz
- Maximum transmission power:
 - DR-pad: +27 dBm; DR-pad-LT: +23 dBm
- Reading speed: over 300 tags/s (M4)
- Maximum sensitivity: -73 dBm (M8)
- Integrated antenna with circular polarization and +8.5 dBiC gain in far-field
- Data communication via Wi-Fi, USB, or BLE
 - Communication protocols: MQTT(s), HTTP(s) REST, sockets, and websockets
 - USB: keyboard emulation (HID), RAW ASCII

General

- 2.4 GHz 802.11n Wi-Fi radio with maximum speed of 150 Mbps
- Integrated RGB LED and buzzer for feedback
- One USB port for communication and power supply
 - Maximum power consumption of 7.5W when operating at +27dBm output
 - E-fuse: electronic fuse for overvoltage and overcurrent protection
 - Integrated sensors for continuous voltage and current monitoring
- Integrated optical sensor, configurable for read triggering
- Approximate weight: 350 g
- Dimensions: 215 x 298 x 20 mm
- Environmental protection rating: IP64
- Operating temperature: -20°C to +65°C
- Certifications: Anatel and FCC

For more information, visit

identix.com