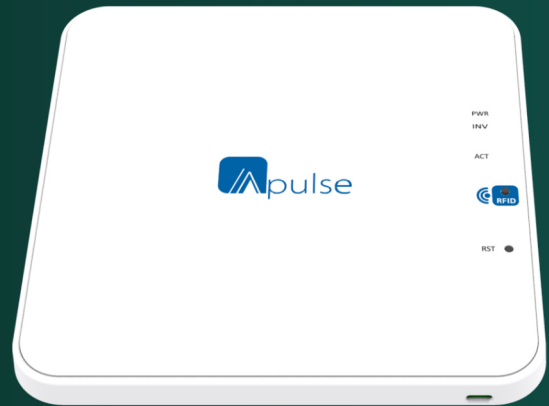# IDCR@FT
RFID & NFC EXPERTS

UHF | RAIN - Stationary Reader
Apulse - Air41

- RAIN RFID (UHF EPC Class1 Gen2, ISO 18000-63) compliant
- USB VCP / HID / UART
- USB Type - C
- LED indicator and buzzer
- Support for all major operating systems

UHF | RAIN - Desktop Reader
Empower your data flow

Air41 is a compact and elegantly designed desktop UHF RFID reader, optimized for environments where space efficiency, aesthetics, and plug-and-play simplicity are crucial.

With a slim 13mm profile and a lightweight 367g (0.8 lb) form, it seamlessly integrates into office desks, retail counters, and IT workstations.

Equipped with a USB Type-C interface, Air41 offers direct power and data communication without needing additional infrastructure. It supports USB VCP (default) and optional HID or UART communication modes for versatile connectivity. Once connected, the device allows users to read and write RFID tags effortlessly, with no additional setup. A LED indicator and buzzer provide real-time feedback, and simple tactile buttons enable intuitive control for inventory and notification functions.

Common Applications

- Asset tracking
- Healthcare
- Retail
- Membership Management
- Access Management

TECHNICAL SPECIFICATIONS

RFID Characteristics

Frequency	ETSI: 865 Mhz - 868 MHz FCC: 902MHz - 928MHz
Read Range	~1 m (Depend on Tags & Environment)
Write Range	~0.2m
RF output	5dBm ~ 20dBm (step 1dB Adjustable by software)
Protocol	Gen2, ISO/IEC 18000-6C, EPC Gen2 V2(E710)
RFID Engine	Apulse RFID module with embedded Impinj chips
Antenna	Circular polarization

Network Characteristics

Power and Data	Default USB Type C Connector
Communication	USB VCP (Default) / HID (Factory Option) / UART

User Environment

Operating Temp.	-20 C ~ +60 C
Storage Temp.	-30 C ~ +70 C
Humidity	95% non-condensing

Physical Characteristics

Dimension	195x195x13 mm
Weight	367 g
OperationMode	Continuous, Inventory on/off
Notification	LED Indicators, Buzzer
User input	Inventory on/off, Buzzer on/off
Power	DC 5V / 500mA (PC USB Power)