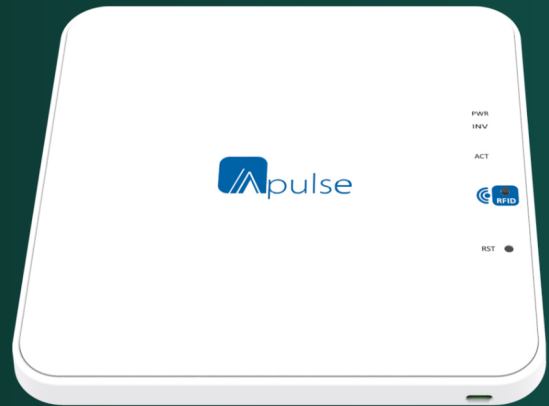


### UHF | RAIN - Stationary Reader **Apulse - Air41**

- 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<br>FCC: 902MHz - 928MHz   |
| Read Range  | ~1 m (Depend on Tags & Environment)               |
| Write Range | ~0.2m                                             |
| RF output   | 5dBm ~ 20dBm<br>(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)    |