



2 years warranty



## **QUALICA-RD UHF A4**

**Excellent RFID capability with the Android operating system.**

**Qualica-RD UHF A4** is a 4-channel fixed RFID reader, based on **Android 9.0**. Integrated with Impinj E710 / R2000 RFID chip, it supports RS232, RJ45 and HDMI, and can also be compatible with various types of antennas.

With high stability and outstanding performance, the Qualica-RD UHF A4, can be applied to warehouse management, archive and library management, banks, clothing and footwear retail, jewelry monitoring, laundry, lockers and vending machines, etc.



## Technical Specifications

### Physical Characteristics

<b>Dimensions</b>	214 (L) x 148 (W) x 30 (H) mm
<b>Weight</b>	1000g / 35.27 oz. (without antenna)
<b>Material</b>	Aluminium alloy
<b>Input Voltage</b>	DC 10V – 24V
<b>Standby Current</b>	< 30mA
<b>Work Current</b>	1300mA +/-5% @ DC 12V Input
<b>Expansion Slot</b>	1 slot for Nano SIM card, 1 slot for TF card
<b>Comm Interface</b>	1*RS-232 , 1*RJ45, 3*USB2.0 Type A, 1*Type C, USB Host
<b>Display Interface</b>	HDMI Type A, support 720P
<b>GPIO</b>	4 Input Optical-couplings, 4 Output Optical-couplings, isolation, 1 Wiegand
<b>Baud Rate</b>	115200 bps
<b>Cooling Mode</b>	Air cooling
<b>Power</b>	DC (12V), POE (802.3af 13W), POE+ (802.3at 25.5W)

### Performance

<b>CPU</b>	Qualcomm 1.8 GHz Octa-core
<b>RAM+ROM</b>	3 GB + 32 GB 2 GB + 16 GB (optional)

### Developing Environment

<b>Operating System</b>	Android 9
<b>SDK</b>	Qualica-RD Software Development Kit
<b>Language</b>	Java
<b>Tool</b>	Eclipse/Android Studio

### Communication

<b>Ethernet interface</b>	10/100 Base-T Ethernet (RJ45)
<b>WLAN</b>	Support 802.11 a/b/g/n/ac/d/e/h/i/k/r/v, 2.4G/5G dual-band, IPV4, IPV6; Fast roaming: PMKID caching, 802.11r, OKC; Operating Channels: 2.4G(channel 1*13), 5G(channel 36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140,149,153,157,161,165), Depends on local regulations; Security and Encryption: WEP,WPA/WPA2-PSK(TKIP and AES),WAPI-PSK—EAP-TTLS,EAP-TLS, PEAP-MSCHAPV2, PEAP-LTS,PEAP-GTC,etc.
<b>WWAN (Europe, Asia)</b>	2G: B1/B5/B8 3G: CDMA EVDO: BCO TD-SCDMA: B34/B39 WCDMA: B1/B5/B8 4G: TDD-LTE: B34/B38/B39/B40/B41 FDD-LTE: B1/B3/B5/B7/B8/B20
<b>WWAN(America)</b>	3G: B2/B4/B5 4G: B2/B4/B5/B7/B12/B13/B17/B28a/B28b

### User Environment

<b>Operating Temp.</b>	-25 °C to 65 °C
<b>Storage Temp.</b>	-40 °C to 85 °C
<b>Humidity</b>	10% - 95%

### UHF

<b>Engine</b>	CM710-4 module based on Impinj E710 CM2000-4 module based on Impinj Indy R2000
<b>Protocol</b>	EPC global UHF Class 1 Gen 2 / ISO 18000-6C
<b>Frequency</b>	865-868 MHz / 920-925 MHz / 902-928 MHz
<b>Output Power</b>	1W (30dBm, support +5~+30dBm adjustable, POE/DC power) 2W Optional (33dBm, support +10~+33dBm adjustable, POE+/DC power, for Latin America, etc.)
<b>Output Power Precision</b>	+/- 1dB
<b>Output Power Flatness</b>	+/- 0.2dB
<b>Receive Sensitivity</b>	< -84dBm
<b>Fastest Read Rate</b>	900+ tags/sec
<b>RSSI</b>	Supported
<b>Ambient Temp Monitor</b>	Supported
<b>Antenna Detector</b>	Supported
<b>Antenna</b>	Supporting a variety of antennas, such as 6dBic, 9dBic
<b>Antenna Port</b>	4 channel 50Ω TNC port

