



RD 72

QUALICA-RD 72

Professional mobile device with long range RFID-UHF reader.



QUALICA-RD 72 is a rugged, drop-proof (Android 11/8.1) reader with best-in-class RFID-UHF capability. The RFID reader features optional barcode scanning, powerful processor, 8000mAh battery. Built with integrated R2000 or E710 antenna (option), it allows reading over 15 meters away outdoors.



Performance

Android 8.1

Operating System	Android 8.1; SafeUEM supported
CPU	Cortex-A53 2.5 GHz Octa-core
RAM+ROM	3 GB + 32 GB / 4 GB + 64 GB (optional)
Expansion	Supports up to 128 GB Micro SD card

Android 11

Operating System	Android 11; GMS, FOTA, SafeUEM supported. Committed support for a future upgrade to Android 12, 13, and Android 14 pending feasibility
CPU	Cortex-A53 2.3 GHz Octa-core
RAM+ROM	3 GB + 32 GB / 4 GB + 64 GB (optional)
Expansion	Supports up to 128 GB Micro SD card

Communication

Android 8.1

WLAN	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna
Bluetooth	Bluetooth v2.1+EDR, 3.0+HS, v4.1+HS
GNSS	GPS/AGPS, GLONASS, BeiDou; internal antenna
WWAN (China)	2G: 900/1800 MHz 3G: WCDMA: B1,B8 CDMA2000 EVDO: BC0 TD-SCDMA: B34,B39 4G: B1,B3,B5,B8,B34,B38,B39,B40,B41
WWAN (Overseas)	2G: 850/900/1800/1900 MHz 3G: B1,B2,B4,B5,B8 4G: B1,B2,B3,B4,B5,B7,B8,B12,B17,B20,B25,B40,B66

Android 11

WLAN	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna
Bluetooth	Bluetooth 5.0
GNSS	GPS/AGPS, GLONASS, BeiDou; internal antenna
WWAN	2G: GSM850/GSM900/DCS1800/PCS1900 3G: WCDMA: B1/B2/B4/B5/B8 CDMA2000 EVDO: BC0 TD-SCDMA: A/F 4G: B1/B2/B3/B4/B5/B7/B8/B12/B17/B20/B28A/B28B/B34/B38/B39/B40/B41

Physical Characteristics

Dimensions	164.2 x 80.0 x 24.3 mm / 6.46 x 3.15 x 0.96 in.
Weight	654 g / 23.07 oz.
Display	5.2" IPS LTPS 1920 x 1080
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Power	Li-ion, rechargeable, 8000 mAh Standby: over 500 hours Continuous use: over 12 hours (depending on user environment) Charging time: 3-4 hours (with standard adaptor and USB cable)
Expansion Slot	1 slot for Nano SIM card, 1 slot for Nano SIM or TF card
Interfaces	USB 2.0 Type-C, OTG, Type-C headphones supported
Sensors	Light sensor, proximity sensor, gravity sensor
Notification	Sound, LED indicator
Audio	1 microphone; 1 speaker; receiver
Keypad	4 front keys, 1 power key, 2 scan keys, 1 multifunctional key

User Environment

Operating Temp.	-4 °F to 122 °F / -20 °C to 50 °C
Storage Temp.	-40 °F to 158 °F / -40 °C to 70 °C
Humidity	5% RH - 95% RH non condensing
Drop Specification	Multiple 1.5 m / 4.9 ft. drops (at least 20 times) to the concrete across the operating temperature range
Tumble Specification	1000 x 0.5 m / 1.64 ft. falls at room temperature
Sealing	IP65 per IEC sealing specifications
ESD	±15 KV air discharge, ±6 KV conductive discharge

Developing Environment

SDK	Qualica-RD Software Development Kit
Language	Java
Tool	Eclipse / Android Studio

Data Collection

Camera	13 MP Autofocus with flash
RFID (Optional)	
UHF	
Engine	CM710-1 module based on Impinj E710 CM2000-1 module based on Impinj Indy R2000
Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular polarization (4dBi), linear polarization(1.8dBi)
Power	1 W (30 dBm, +5 dBm to +30 dBm adjustable) 2 W Optional (33 dBm, for Latin America, etc.)
R/W range	Up to 15 m (circular polarization, open outdoors, Impinj MR6 tag); up to 7 m (linear polarization, open outdoors)
Fastest Read Rate	900+ tags/sec (circular polarization)

* Ranges and rates depend on tags and environment

Barcode Scanning (Optional)

1D Linear Scanner	Zebra: SE965; Honeywell: N4313
1D Symbolgies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
2D Imager Scanner	Zebra: SE4710 / SE4750SR / SE4750MR / SE4750DP; Honeywell: N6603
2D Symbolgies	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX), etc.

NFC

Frequency	13.56 MHz
Protocol	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc.
Chips	M1 card (S50, S70), CPU card, NFC tags, etc.
Range	2-4 cm

Accessories

Standard	AC Adaptor, USB Cable, etc.
Optional	Cradle, Holster , etc.

* For detailed specification, please check Accessory Guide.

Accessories



Base (Optional)



AC Adapter



USB cable