



QUALICA-RD 80

Industrial Tablet



QUALICA-RD 80 with abundant functions is an Android 9.1 rugged tablet. With its powerful Qualcomm CPU, 8 inch high-definition screen, 8000 mAh battery and comprehensive data capture options like UHF RFID, barcode scanning, HF RFID/ NFC, Iris and fingerprint recognition, etc., you can find this easy-to-deploy device a valuable helper to increase productivity in retail, logistics, warehousing, identity verification, meter reading, etc.



SPECIFICATIONS

Physical Characteristics

Dimensions	250.8mm x 152mm x 15mm / 9.87 x 5.98 x 0.59in(for standard version)
Weight	700g/24.7oz(for standard version)
Display	8" IPS LTPS 1920x1200
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Power	Main battery: Li-ion, rechargeable, 8000mAh Standby: over 500 hours Continuous use: over 10 hours (depending on user environment) Charging time: 5-7 hours (with standard AC adaptor and USB cable)
Expansion Slot	1 slot for SIM card, 1 slot for TF card, Optional PSAM card slot
Interfaces	USB 3.0 Type-C, OTG
Audio	Speaker, microphone
Keypad	1 front key, 1 volume key, 1 power key
Sensors	Gravity sensor

Performance

CPU	Qualcomm 1.8GHz Octa-core
RAM+ROM	3GB+32GB
Expansion	Supports up to 128GB Micro SD card

Developing Environment

Operating System	Android 9.0
SDK	Software Development Kit
Language	Java
Tool	Eclipse / Android Studio

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 1.5m/4.9ft drops to concrete across the operating temperature range
Tumble Specification	500 x 0.5m/1.64ft falls at room temperature
Sealing	IP65 per IEC sealing specifications
ESD	±15KV air discharge, ±8KV conductive discharge

Communication

WLAN	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna
WWAN	2G: 850/900/1800/1900MHz, GPRS, EDGE
	3G: CDMA EVDO:BC0
	TD-SCDMA: B34/B39
	WCDMA: B1/B2/B5/B8
	4G: TDD-LTE: B38/B39/B40/B41
	FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B20/B26/B28
Bluetooth	Bluetooth 4.2/4.1+HS/4.0/3.0+HS/2.1+EDR
GNSS	GPS/AGPS, GLONASS, BeiDou, internal antenna

Data Collection

Camera

Rear Camera	13MP Autofocus with flash
Front Camera	8MP

Barcode Scanning (Optional)

Scan Engine	Zebra SE4710 (standard), Zebra SE4850 (optional)
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 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.

RFID (Optional)

UHF

Frequency	865MHz-868MHz / 920-925MHz / 902-928MHz
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* For detailed specification, please check P80 UHF part.

NFC/HF

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

Fingerprint (Optional)

Option 1

Sensor	TCS1/TCS2 Capacitive
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Option 2

Sensor	Optical Morpho CBM-E3
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* For detailed specification, please check P80 Fingerprint part.

InfraRed (Reserved)

Wavelength	940nm
Frequency	38kHz
Range	> 4m
Protocol	DLT_645-2007, DLT_645-1997

Front Iris (Reserved)

Rate	<150ms
Range	20-40cm
FAR	1/10000000
Protocol	ISO/IEC 19794-6 GB/T 20979-2007

PSAM (Optional)

Card slot	2 PSAM card slot
Protocol	ISO7816

Accessories (See details in Accessory Guide)



AC Adaptor



USB Cable



Pistol(Optional)



Wristband

QUALICA-RD 80 UHF

Deliver Better-than-ever UHF Performance



Specification

UHF(Optional)

Engine	CM-1 module based on Impinj Indy R2000
Frequency	865MHz-868MHz / 920-925MHz / 902-928MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular polarization (default UHF, 3dBi ; UHF with pistol grip, 4dBi)
Power	1W (30dBm, +5dBm to +30dBm adjustable)
R/W range	> 10m (open outdoors); > 25m (indoors)
Reading rate	>200 tags/s

* Ranges and rates depend on tags and environment.

QUALICA-RD 80 Biometrics

Accurate Fingerprint Reading and Facial Recognition

FINGERPRINT TCS1 Capacitive



FINGERPRINT TCS2 Capacitive



FINGERPRINT Optical Fingerprint



Specification

Fingerprint (Optional)

Option 1

Sensor	TCS1/TCS2 Capacitive
Sensing Area (mm)	12.8x18; 10.4x14.4
Resolution (dpi)	508 dpi, 8-bit greylevel
Certifications	FIPS 201, STQC
Format Extraction	ISO 19794, W/SQ, ANSI 378, JPEG2000
Fake Finger Detection	Support by SDK
Security	AES, DES key encryption of the host communication channel

Option 2

Sensor	Optical Morpho CBM-E3
Sensing Area (mm)	14x22
Resolution (dpi)	500 dpi, 256 greylevel
Certifications	FIPS PIV IQS / ISO 19794-4, MINEX & FIPS 201 complaint, STQC
Format Extraction	ISO 19794-2/4, W/SQ, ANSI 378, etc.
Fake Finger Detection	Latex, Gelatin, Plasticine, Kapton, Transparent Film, Silicone, Rubber, Play-doh, Graphite Or Paper
Security	FIPS 140-2 level 2, multiple security methods available, including image and templates encryption, template signature, secure tunneling, etc.