

# QUALICA-RD 66

## Handheld Computer

More Powerful, More Extensible,  
More Advanced in Every Way.

**LÍDERES  
EN CONTROL  
DE ACCESOS**



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# A U T O M A T I C I D E N T I F I C A T I O N S Y S T E M S



# QUALICA-RD 66

## Handheld Computer

QUALICA-RD 66 is a new generation rugged handheld computer that is more advanced in every way. Built with more powerful configurations, larger display, outstanding power performance, full and complete accessories, as well as stronger extensibility to enable more possibilities, you can find this easy-to-deploy device an exceptionally valuable helper to increase working efficiency and productivity.



Android 9.0



Qualcomm  
1.8 / 2.0 GHz Octa-core



5.5-inch IPS Display



Removable Battery  
(4300mAh)



Support QC 3.0 18W  
Quick Charge



Optional Trigger Handle  
(Extended 5200mAh Battery)



Support RFID Sled RD 6  
(Optional)



Optional UHF RFID  
(coming soon)



Comprehensive Range  
of Accessories



Barcode Scanning  
NFC

# 1 QUALICA-RD 66 + Trigger Handle

(Coming Soon)

RD 66 supports optional trigger handle. A button is located at fingertip area of handle for easy operation. And the built-in 5200 mAh battery greatly expands the power of the whole device and allows high flexibility.

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(Coming Soon)



# 3 QUALICA-RD 66 + RD 6

(Optional)

RD 66 can be paired with RD 6 UHF sled for a complete one-piece RFID solution. RD 6 with embedded Impinj R2000 chip enables read range of over 10m outdoors. Whenever only barcode scanning is needed, RD 6 can be detached with ease, returning RD 66 to be a lightweight handheld computer.

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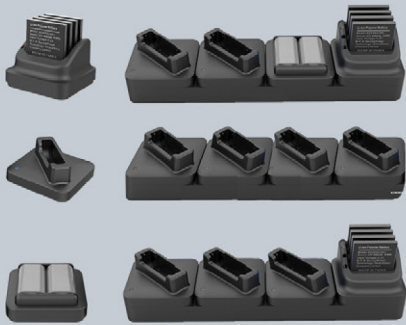
# 2 QUALICA-RD 66 + UHF RFID

(Optional)

Supports optional RFID module for powerful UHF performance. Configured with Impinj R2000 chip and circular polarized antenna, it delivers high read rate and wide read scope to enable the fulfillment of various tasks.

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# 4

## Charging Cradles

(Optional)

RD 66 offers various charging cradle options that include single charging cradle, 4-slot battery charger, 2-slot handle battery charger, and several types of 4-slot charging cradles.

# 5

## Hand Strap (Optional)

The ergonomically designed hand strap delivers comfort and easy operation, effectively reducing accidental drops.

## Rubber Bumper (Optional)

The optional rubber bumper can provide extra protection to the device to make it withstand drops from 2.4m and greatly enhance the anti-fall performance. Even in harsh outdoor use, there is no fear of damage.



# 6

## Vehicle Charging Cradle

(Optional)

Specially designed for RD 66, safe and reliable, and can be easily installed on the center console of a vehicle to ensure total protection for the user and the device.

## Physical Characteristics

<b>Dimensions</b>	160 x 76 x 15.5 mm / 6.3 x 2.99 x 0.61 in
<b>Weight</b>	287g / 10.12oz (host with battery)
<b>Keypad</b>	1 power key, 2 scan keys, 2 volume keys, 1 PTT key
<b>Battery</b>	4300mAh removable main battery, 5200mAh optional pistol battery, support QC3.0 and RTC Standby: over 300 hours (only main battery) Continuous use: over 12 hours (depending on user environment) Charging time: 2.5 hours (charge device by standard adaptor and USB cable)
<b>Speaker</b>	Support
<b>Vibrator</b>	Support
<b>Microphone</b>	2 Microphones, 1 for noise reduction
<b>Display</b>	5.5-inch high definition full display (18:9), IPS LTPS 1440*720
<b>Touch Panel</b>	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
<b>Sensor</b>	Distance sensor, light sensor, gravity sensor, vibration motor
<b>Indicator LED</b>	Power, charging, status indicator
<b>Card slot</b>	2 slot for SIM card, 1 slot for TF card
<b>Interfaces</b>	USB3.0, Type-C, OTG, extended thimble

## Performance

<b>CPU</b>	Qualcomm 2.0GHz Octa-core Qualcomm 1.8 GHz Octa-core
<b>RAM+ROM</b>	3GB + 32GB / 4 + 64GB
<b>Expansion</b>	Supports up to 128 GB Micro SD card

## Developing Environment

<b>Operating System</b>	Android 9.0
<b>SDK</b>	Qualica-RD Software Development Kit
<b>Language</b>	Java
<b>Tool</b>	Eclipse/Android Studio

## User Environment

<b>Operating Temp.</b>	-20°C~+50°C
<b>Storage Temp.</b>	-40°C~+70°C
<b>Humidity</b>	5%RH - 95%RH non condensing
<b>Drop Specification</b>	Multiple 1.5m/4.9ft drops (at least 20 times) to the concrete across the operating temperature range Multiple 2.4m/7.87ft drops (at least 20 times) to the concrete after installed rubber bumper
<b>Tumble Specification</b>	1000 x 0.5m/1.6ft falls at room temperature
<b>Sealing</b>	IP65 per IEC sealing specifications
<b>ESD</b>	±15KV air discharge, ±8KV conductive discharge

## Communication

<b>WLAN</b>	Support 802.11 a/b/g/n/ac
	2G: 850/900/1800/1900MHz
	3G: CDMA EVDO: BC0
<b>WWAN</b>	4G: TDD-LTE: B38, B39, B40, B41
<b>(Europe, Asia)</b>	WCDMA: 850/900/1900/2100MHz
	TD-SCDMA: A/F (B34/B39)
	4G: B1, B3, B5, B7, B8, B20, B38, B39, B40, B41

# Specification

**QUALICA-RD**

## Communication

WWAN (America)	2G: 850/900/1800/1900MHz
	3G: 850/900/1900/2100MHz
	4G: B2, B4, B5, B7, B12, B17, B38
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	Rear 13MP Autofocus with flash
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### 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	2-4cm

## UHF1 (Optional)

Engine	CM2000-1 module based on Impinj Indy R2000
Frequency	865MHz-868MHz / 920-925MHz / 902-928MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular Polarized Antenna (4dBi)
Power	1W (30dBm, +5dBm to +30dBm adjustable)
	2W (optional, 33dBm, for Lati America, etc.)
R/W Range	> 15m (open outdoors, Impinj MR6 tag)
Reading Rate	> 200 tags/s
Communication Mode	Pin Connector

## UHF2 (Optional, UHF Sled)

Engine	CM2000-1 module based on Impinj Indy R2000
Frequency	865MHz-868MHz / 920-925MHz / 902-928MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular Polarized Antenna (3dBi)
Power	1W (30dBm, support +5~+30dBm adjustable)
	2W (optional, 33dBm, for Lati America, etc.)
R/W Range	> 10m(open outdoors, Impinj MR6 tag)
Reading Rate	> 200 tags/s
Communication Mode	Pin Connector / Bluetooth

\*Ranges and rates depend on tags and environment

## Barcode Scanning (optional)

2D Scanner	Zebra: SE4710 / SE2100; Honeywell: N6603
1D Symbologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
2D Symbologies	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.

## Optional Accessories (See details in Accessory Guide)

Separate handle with one button;

Handle + battery (handle battery 5200mAh, one button) ;

UHF back clip + handle (5200mAh, one button) ;

Wrist Strap; Rubber Bumper; Charging Cradle

