

**CHAINWAY**



# C4050 UHF

UHF RFID Reader



Android



4G



WiFi



Bluetooth



1D Barcode



2D Barcode



UHF



Fingerprint



Infra Red



PSAM



GPS

CHAINWAY C4050UHF is an Android rugged mobile computer. It features powerful quad-core processor and fast wireless connections, as well as comprehensive data capture options, like the class-leading UHF capability. It performs perfectly well in retail, logistics, express delivery, warehousing, energy and chemical industry, etc.



# Specification

## Physical Characteristics

Dimensions	213mm x 87mm x 151mm/ 8.39 x 3.43 x 5.94in
Weight	721g/ 25.43oz
Display	4" WVGA (480*800), 16.7M colors
Touch Panel	Rugged capacitive touch panel
Power	Main battery: Li-ion, 3200mAh Pistol battery: Li-ion, 5200mAh
Expansion Slot	1 PSAM, 1 SIM, 1 MicroSD (TF) slot
Interfaces	USB Micro-B
Audio	0.5W speaker, build-in microphone
Keypad	Numeric / Qwerty
Sensors	Light sensor, proximity sensor

## Performance

Option 1	CPU: Qualcomm 1.3 GHz quad-core RAM+ROM: 2GB+16GB
Option 2	CPU: Qualcomm 1 GHz quad-core RAM+ROM: 1GB+8GB
Expansion	Supports up to 128 GB Micro SD card

## Developing Environment

Operating System	Android 5.1
SDK	Chainway 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 1.2m/3.9ft drops to concrete across the operating temperature range
Tumble Specification	1000 x 0.5m/1.64ft falls at room temperature
Sealing	Host IP64 per IEC sealing specifications

## Communication

WLAN	IEEE802.11 a/b/g/n
WWAN(E)	2G: GPRS (900/1800MHz) 3G: WCDMA B1 B8 4G: FDD-LTE: B1 B3 B7 B8 B20
WWAN(N)	2G: GPRS (850/1900MHz) 3G: WCDMA B1 B2 B5 4G: FDD-LTE: B2 B4 B7 B17
WWAN(C)	2G: GPRS (850/900/1800MHz) 3G: WCDMA: B1 CDMA EVDD: EVDD Rev.A800MHz TD-SCDMA: B34, B39 4G: TDD-LTE: B38 B39 B40 B41 FDD-LTE: B1 B3
Bluetooth	Bluetooth 4.0
GNSS	GPS, AGPS

## Barcode Scanning (Optional)

### 1D Linear Scanner

1D Scan Engine	Honeywell N4313/ Zebra SE965
Symbologies	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

2D CMOS Laser Scanner	Zebra SE4500
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.

## RFID (Optional)

### UHF

Engine	CM2000-1 module, based on Impinj Indy R2000
Frequency	865MHz-868MHz / 920-925MHz / 902-928MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Linear polarization (1.8dBi); circular polarization (4dBi)
Power	1W (30dBm, +5dBm to +30dBm adjustable) 2W Optional (33dBm, for Lati America, etc.)
R/W range	>25m (circular polarization, indoors); >15m (circular polarization, open outdoors, Impinj MR6 tag); >21m (linear polarization, indoors); >7m (linear polarization, open outdoors)
Reading rate	>200 tags/s (circular polarization)

\* Range and rate depend on tags and environment

## Fingerprint (Optional)

Functions	Fingerprint enrollment, match, storage etc.
Sensor	TCS1 / TCS2SS (Capacitive)
Image Size (pixel)	TCS1: 12.8*18; TCS2SS: 10.4*14.4
Sensing Area (mm)	TCS1: 256*360; TCS2SS: 208*288
Resolution (dpi)	508
Standard	TCS1: FIPS, STQC; TCS2SS: ISO

## InfraRed (Optional)

Wavelength	940nm
Frequency	38kHz
Range	> 4m
Protoc	DLT_645-2007

## PSAM (Optional)

Slots	2 PSAM slots (maximum)
Protocol	ISO7816

## Accessories (See details in Accessory Guide)



AC Adapter



Snap-on



USB cable



Cradle(Optional)



Pistol(Optional)



Fingerprint (Optional)



Carrying holster (Optional)

Notice: Product specifications are subject to change without prior notice. / Model: C4050 UHF / Update Date: 2019-07-15

**CHAINWAY®**

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