



## C4050 UHF Mobile Computer

CHAINWAY C4050UHF is an Android rugged mobile computer. With its powerful quad-core processor and wireless connections such as 4G, Bluetooth and Wi-Fi, as well as comprehensive data capture options, including UHF RFID reading & writing, 1D/2D barcode scanning, infra-red and sensitive fingerprint scanning, you can find this easy-to-deploy device an exceptionally valuable helper for your workers to increase their efficiency and productivity. With its highly customizable ability, enterprises can deploy this device in many areas, including retail, logistics, express delivery, warehousing, energy and chemical industry, etc.



### Most Powerful Application Performance

It adopts Android 5.1 OS, features the fast and powerful quad-core processor, together with 1/2GB of RAM, 8/16GB build-in flash storage, plus a SD card slot that can add up to 32GB of memory.



### Fast Wireless Connectivity

Whether indoors or outdoors, C4050UHF provides fast and stable network connectivity with a variety of options including 4G network, dual-band Wi-Fi, and Bluetooth.



### Extensive Data Capture Functions

It can also be integrated with best-in class Zebra 1D/2D barcode scanning engine, sensitive fingerprint recognition and infrared functions. It allows users to choose data collection options as per industry need.



### Superior UHF RFID Reading Capability

The C4050UHF provides new levels of UHF RFID reading performance. It can be configured with class-leading R2000 UHF module or cost-effective UHF module, together with two kinds of high performance antenna options.



### Powerful Battery

With the embedded 3200mAh main battery and the 5200mAh pistol battery, it enables non-stop operation over the full working day.



### Highly Customizable

From a single function device to a fully featured enterprise mobile computer, this device delivers the best possible flexibility and diversity to satisfy a whole variety of application needs.

#### About Chainway

As a leading "Internet of Things" company in China, Shenzhen Chainway Information Technology Co., Ltd is a professional provider of products and solutions of RFID and barcode technology. Founded in 2005, Chainway, a high-tech enterprise, has won several times the title of the Best Provider of RFID Readers. Thousands of clients from over 100 countries have experienced our products in retail, logistics, transportation, healthcare, finance, security and manufacturing, etc. Through our nationwide offices, overseas subsidiary and an extensive partner network, we aim to provide high quality service to our clients.



1D Barcode



2D Barcode



RFID



Fingerprint



InfraRed



4G



WiFi



Bluetooth



GPS

## Physical Characteristics

Dimensions	213mm x 87mm x 151mm/ 8.39 x 3.43 x 5.94in
Weight	456g/ 16.08oz
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 32GB 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.	14°F to 122°F / -10°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	IP64

## 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
GNSS	GPS, AGPS

## Barcode Scanning (Optional)

### 1D Linear Scanner

1D Scan Engine	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

Frequency	865MHz-868MHz / 920-925MHz / 902-928MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Linear polarization (1.8dBi) Circular polarization (2.5dBi)
Power	1W (+10dBm to +30dBm)
R/W ranges	Option1 (R2000), up to 4.5m Option2, up to 2m
Reading rates	200 tags/s

\* Ranges and rates 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



AC Adapter



Snap-on



USB cable



Cradle



Pistol (Optional)



Fingerprint (Optional)



Carrying case (Optional)

Notice: Product specifications are subject to change without notice. / Version: C4050UHF V1.1.0 / Update Date: 2017-09-01

