



## C4050

### Mobile Computer

Chainway C4050 is an Android-based rugged mobile computer. With its powerful 1.3GHz processor and best possible battery performance, as well as the comprehensive data capture options, including LF/HF/UHF RFID and NFC reading, high-performance 1D/2D, 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 single device in many areas, including retail, warehouse management, logistics, asset



#### Most Powerful Application Performance

The C4050 is based on Android 4.4.2 system, features the fast and powerful quad core 1.3GHz processor, together with 1GB of RAM, 4GB build-in flash storage, plus a SD card slot that can add up to 32GB of memory.



#### Extensive Data Capture Functions

The C4050 can be integrated with best-in-class Motorola 1D/2D scanning engine, LF/HF/UHF RFID and NFC reading module, sensitive fingerprint snap-on and GPS. It allows users to choose data collection options as per industry need.



#### Rugged and Compact

The C4050 is highly rugged, compact and durable. With an IP64 water and dust proof capability, workers can drop this device on concrete, use it in dusty areas, even get it wet, and still expect reliable operation.



#### Fast Wireless Connectivity

The C4050 provides enterprises with anywhere, anytime real-time connectivity by a variety of wireless connections including WCDMA, WiFi, Bluetooth and GPRS.



#### Powerful Battery

With the 3200mAh main battery and the optional 5200mAh pistol battery, you can be confident that your C4050 can always deliver results when you need it to.



#### 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

Chainway is a leading manufacturer of rugged mobile computers and fixed data terminal in China. Founded in 2005, headquarters in Shenzhen. For the past decade, Chainway has delivered data collection devices, including handheld rfid reader, fingerprint reader, barcode scanner and etc, to thousands of customers around the globe. We works with a worldwide network of distributors, system integrators and software developers to offer complete and professional data collection solutions to customers from a variety of areas.



1D Barcode



2D Barcode



RFID



NFC



Fingerprint



InfraRed



3G



WiFi



Bluetooth



GPS



Camera

## Physical Characteristics

Dimensions	176mm x 76mm x 28.5mm / 6.93 x 2.99 x 1.12in
Weight	292g / 10.30oz
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 (Optional)
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

CPU	Cortex-A7 1.3GHz quad-core
RAM	1GB
ROM	4GB
Expansion	Supports up to 32GB Micro SD card

## Developing Environment

Operating System	Android 4.4.2
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 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 b/g/n GSM/GPRS/EDGE Quad Band
WWAN	(850/900/1800/1900MHz) WCDMA (850/1900/2100MHz)
Bluetooth	Bluetooth 4.0
GPS	GPS, AGPS

## Biometric (Optional)

Functions	Enrollment, compare, deletion etc.
Sensor	TCS2SS
Sensor Type	Capacitive Sensor
Resolution	508DPI
Memory	1,000 PCS fingerprints

## InfraRed (Optional)

Wavelength	940nm
Frequency	38kHz
Range	> 4m

## Barcode Scanning (Optional)

1D Linear Scanner	
1D Laser / CCD	Symbol 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	Symbol SE4750
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)

LF	
Frequency	125kHz, 134kHz (FDX-B / HDX)
Protocol	ISO11784/5, ISO18000-2 R/O ID card, eg EM4100/4200, TK4100 R/W ID card, eg EM4305/HITAG S Animal tags Others for customization
Chips	
Range	3-8cm
LF (with external antenna)	
Frequency	134kHz (FDX-B+HDX)
Protocol	ISO11784/5
Chips	Animal tags Others for customization
Range	3-12cm, external antenna 3-20cm, with a 75cm extension antenna
HF	
Frequency	13.56MHz
Protocol	ISO14443A/B, ISO15693 M1 card (S50/S70), M0 (Ultralight), M3 (Desfire D40/D41/D81), CPU_A card CPU_B card ICODE II, TI2048, LRI64K Others for customization
Chips	
Range	3-8cm

NFC	
Frequency	13.56MHz
Protocol	ISO/IEC 18092 (ECMA 340) ISO/IEC 21481 (ECMA 352)
Range	2-4cm

\* For the UHF specifications, please check C4050 UHF specification sheet

## Other Modules (Optional)

Camera	8MP autofocus camera with flash
PSAM	ISO7816 Protocol, 1 PSAM slot

## Accessories



AC Adapter



Snap-on



USB cable



Cradle (Optional)



Pistol (Optional)



Fingerprint Snap-on (Optional)

Notice: Product specifications are subject to change without notice. / Version: C4050 V2.0.2 / Update Date: 2016-08-12

