

# CHAINWAY



# C4050

## Mobile Computer



Chainway C4050 is an Android-based rugged mobile computer. With its highly customizable ability and abundant functions, enterprises can deploy this single device in many areas, including retail, warehouse management, logistics, asset tracking, fleet management and etc.



# Specification

## Physical Characteristics

<b>Dimensions</b>	176mm x 76mm x 29mm/ 6.93 x 2.99 x 1.14in
<b>Weight</b>	319g/ 11.25oz
<b>Display</b>	4" WVGA (480*800), 16.7M colors
<b>Touch Panel</b>	Rugged capacitive touch panel
<b>Power</b>	Main battery: Li-ion, 3200mAh Pistol battery: Li-ion, 5200mAh (optional)
<b>Expansion Slot</b>	1 PSAM, 1 SIM, 1 MicroSD(TF) slot
<b>Interfaces</b>	USB Micro-B
<b>Audio</b>	0.5W speaker, build-in microphone
<b>Keypad</b>	Numeric / Qwerty
<b>Sensors</b>	Light sensor, proximity sensor

## Performance

<b>Option 1</b>	CPU: Qualcomm 1.3 GHz quad-core RAM+ROM: 2GB+16GB
<b>Option 2</b>	CPU: Qualcomm 1 GHz quad-core RAM+ROM: 1GB+8GB
<b>Expansion</b>	Supports up to 32GB Micro SD card

## Developing Environment

<b>Operating System</b>	Android 5.1
<b>SDK</b>	Chainway Software Development Kit
<b>Language</b>	Java
<b>Tool</b>	Eclipse / Android Studio

## User Environment

<b>Operating Temp.</b>	-4°F to 122°F / -20°C to 50°C
<b>Storage Temp.</b>	-40°F to 158°F / -40°C to 70°C
<b>Humidity</b>	5%RH - 95%RH non condensing
<b>Drop Specification</b>	Multiple 1.2m/3.9ft drops to concrete across the operating temperature range
<b>Tumble Specification</b>	1000 x 0.5m/1.64ft falls at room temperature
<b>Sealing</b>	IP64
<b>ESD</b>	±15KV air discharge, ±8KV conductive discharge

## Communication

<b>WLAN</b>	IEEE802.11 a/b/g/n 2G: GPRS(900/1800MHz)
<b>WWAN(Europe)</b>	3G: WCDMA B1, B8 4G: FDD-LTE: B1, B3, B7, B8, B20
<b>WWAN(America)</b>	2G: GPRS(850/1900MHz) 3G: WCDMA B1, B2, B5 4G: FDD-LTE: B2, B4, B7, B17
<b>WWAN (China)</b>	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
<b>Bluetooth</b>	Bluetooth 4.0
<b>GNSS</b>	GPS, AGPS

## InfraRed (Optional)

<b>Wavelength</b>	940nm
<b>Frequency</b>	38kHz
<b>Range</b>	> 4m
<b>Protocol</b>	DLT_645-2007

## Barcode Scanning (Optional)

<b>1D Scan Engine</b>	Honeywell N4313/ Zebra SE965
<b>Symbologies</b>	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
<b>2D Scan Engine</b>	Zebra SE4500
<b>Symbologies</b>	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

<b>Frequency</b>	125kHz, 134kHz (FDX-B / HDX)
<b>Protocol</b>	ISO11784/5, ISO18000-2
<b>Chips</b>	R/O ID card, e.g. EM4100/4200, TK4100 R/W ID card, e.g. EM4305/HITAG S Animal tags Others for customization
<b>Range</b>	3-8cm

### LF (with external antenna)

<b>Frequency</b>	134kHz (FDX-B+HDX)
<b>Protocol</b>	ISO11784/5
<b>Chips</b>	Animal tags Others for customization
<b>Range</b>	3-12cm, external antenna 3-20cm, with a 75cm extension antenna

### HF

<b>Frequency</b>	13.56MHz
<b>Protocol</b>	ISO14443A/B, ISO15693
<b>Chips</b>	M1 card (S50/S70), M0 (Ultralight), M3 (Desfire D40/D41/D81), CPU_A card CPU_B card ICODE II, TI2048, LRI64K Others for customization
<b>Range</b>	3-8cm

### NFC

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

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

## Fingerprint (Optional)

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

## Other Modules (Optional)

<b>Camera</b>	8MP Autofocus with flash
<b>PSAM</b>	ISO7816 Protocol, 1 PSAM slot

## Accessories



AC Adapter



Snap-on



USB cable



Cradle (Optional)



Pistol (Optional)



Fingerprint (Optional)



External antenna (Optional)



Carrying holster (Optional)

Notice: Product specifications are subject to change without prior notice. / Model: C4050 / Update Date: 2018-01-18

**CHAINWAY**<sup>®</sup>

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