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 tracking, fleet management, animal management and etc.

ISO 9001 UCC · CE · CCC · RoHS · FC

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 Zebra 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
IP64

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

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.

CHAINWAY®

1D Barcode	2D Barcode	RFID	NFC	Fingerprint	IR 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°Fto 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
WWAN	GSM/GPRS/EDGE Quad Band (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
Protocol	DLT_645-2007

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
Chips	R/O ID card, eg EM4100/4200, TK4100
	R/W ID card, eg EM4305/HITAG S
	Animal tags
	Others for customization
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
Chips	M1 card (S50/S70), M0 (Ultralight), M3 (Desfire D40/D41/D81), CPU_A card
	CPU_B card
	ICODE II,TI2048,LRI64K
	Others for customization
Range	3-8cm

NFC

Frequency	13.56MHz
Protocol	ISO/IEC 18092 (ECMA 340)
Range	ISO/IEC 21481 (ECMA 352)
	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)

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