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.

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.

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

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.

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.

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.

CHAINWAY®

| 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	Bluetooth 4.0		
GNSS	GPS, AGPS		

Barcode Scanning (Optional)

1D Linear Scanner

1D Laser / CCD	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