# CHAINWAY ®

# C4050-Q4 UHF
## Mobile Computer

CHAINWAY C4050-Q4 UHF 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, C4050-Q4 UHF 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 C4050-Q4 UHF 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: 2GB |
| | ROM: 16GB |
| Option 2 | CPU: Qualcomm 1 GHz quad-core |
| | RAM: 1GB |
| | ROM: 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 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<br>CDMA EVDD:  EVDD Rev.A800MHz<br>TD-SCDMA:    B34, B39 |
| | 4G: TDD-LTE:      B38/B39/B40/B41<br>FDD-LTE:       B1/B3 |
| Bluetooth | Bluetooth 4.0 |
| GPS | GPS, AGPS |

## 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 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 |
| | (Ranges depend on tags and environment) |
| Reading rates | 200 tags/s |

## 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 |

## PSAM (Optional)

| | |
|---|---|
| Slots | 2 PSAM slots(maximum) |
| Protocol | ISO7816 |

## Accessories



AC Adapter



Snap-on



USB cable



Cradle



Pistol



Fingerprint (Optional)

Notice: Product specifications are subject to change without notice. / Version: C4050 Q4 UHF V1.1.0 / Update Date: 2017-03-15