# C4050-Q4

## ENTERPRISE MOBILE HANDHELD COMPUTER

C4050-Q4 is an Android-based rugged mobile computer. With its fast 4G connectivity and powerful Qualcomm processor as well as the comprehensive data capture options, including LF/HF 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 customizableability, enterprises can deploy this single device in many areas, including retail, warehouse management, logistics,asset tracking, fleet management, healthcare and etc.

### Powerful Application Performance

The C4050-Q4 features the latest and fastest Qualcomm SoC processor, together with 2GB of RAM, 16GB build-in flash storage, plus a SD card slot that can add up to 32GB of memory.

### 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.

### 4G LTE - Faster Connectivity

Whether indoors or outdoors, the C4050-Q4 provides enterprises with anywhere, anytime real-time connectivity by the fast 4G LTE celluar network and 802.11 a/b/g/n Wi-Fi support.

### Extensive Data Capture Options

The C4050-Q4 can be integrated with best-in-class Zebra 1D/2D scanning engine, LF/HF/UHF RFID or NFC reading module, sensitive fingerprint snap-on and GPS. It allows users to choose data collection options as per industry need.

### Superior RFID Reading Capability

The C4050-Q4 provides new levels of RFID and NFC reading performance. It can be configured with high-performance LF/HF RFID reading module, or NFC reading module to capture different kinds of information.

### 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

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# C4050-Q4

**Accessories**

## Physical Characteristics

| | |
|---|---|
| Dimensions | 176mm x 76mm x 28,5mm |
| Weight | 292g |
| Display | 4" WVGA (480*8000), 16.7M colors |
| Touch Panel | Rugged Capacitive Touch Panel |
| Power | Main battery: Li-ion, 3200mAh<br>Pistol battery: Li-ion, 5200mAh (Optional) |
| Expansion Slot | 1 PSAM<br>1 SIM/PSAM<br>1 MicroSD(TF) slot |
| Interfaces | USB Micro-B (OTG) |
| Audio | 0.5W speaker, build-in microphone |
| Keypad | Numeric / Qwerty |
| Sensor | Light Sensor, Proximity Sensor |

## Performance

| | |
|---|---|
| CPU | Qualcomm 1-3GHz quad-core |
| RAM | 2GB |
| ROM | 16GB |
| Expansion | Supports up to 32GB Micro SD card |

## Developing Enviroment

| | |
|---|---|
| Operating System | Android 5.1 |
| SDK | Software Development Kit |
| Language | Java |
| Tool | Eclipse / Android Studio |

## User Enviroment

| | |
|---|---|
| Operating Temp. | -10°C to 50°C |
| Storage Temp. | -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 falls at room temperature |
| Sealing | IP64 |

## Communication

| | |
|---|---|
| WLAN | IEEE802.11 a/b/g/n |
| WWAN(E) | 2G GPRS (900/1800MHz)<br>3G WCDMA B1 - B8<br>4G FDD LTE B1 - B3 - B7 - B8 - B20 |
| WWAN(N) | 2G GPRS (850/1900MHz)<br>3G WCDMA B1 - B2 - B5<br>4G FDD LTE B2 - B4 - B7 - B17 |
| WWAN(C) | 2G GPRS (850/1900MHz)<br>3G WCDMA B1<br>3G CDMA EVD 800MHz<br>3G TD-SCDMA B34 - B39<br>4G TDD LTE B38 - B39 - B40 - B41<br>4G 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)

### LF with Internal Antenna

| | |
|---|---|
| Frequency | 125kHz, 134kHz (FDX-B / HDX) |
| Protocol | ISO11784/5, ISO18000-2 |
| Chips | R/O ID card, eg EM4100/4200 TK4100<br>R/W ID card, eg EM4305/HITAG S<br>Animal tags |
| Range | 3-8cm |

### LF with External Antenna

| | |
|---|---|
| Frequency | 134kHz (FDX-B+HDX) |
| Protocol | ISO11784/5 |
| Chips | Animal tags |
| Range | 3-12cm<br>3-20cm with a 75cm Extension Antenna |

### HF

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

### NFC

| | |
|---|---|
| Frequency | 13.56MHz |
| Protocol | ISO/IEC 18092 (ECMA 340)<br>ISO/IEC 21481 /ECMA 352) |
| Range | 2-4cm |

## Other Modules (Optional)

| | |
|---|---|
| Camera | 5MP autofocus camera with flash |
| PSAM | ISO7816 Protocol, 2 PSAM slot |

## InfraRed (Optional)

| | |
|---|---|
| Wavelenght | 940nm |
| Frequency | 38KHz |
| Range | > 4m |

## Biometric (Optional)

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


AC Adapter


Snap On


USB Cable


Cradle (Opzional)


Pistol (Optional)


Fingerprint Snap-on (Optional)


Carrying case (Optional)

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## CHAINWAY®

**Chainway is a leading manufacturer of rugged mobile computers and fixed data terminals in China. Founded in 2005, it 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 work 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.**