# C3000
## Mobile Computer

Chainway's C3000 is a WindowsCE-based rugged mobile computer, featuring a powerful 800MHz processor and best in class battery performance. It can be integrated with a variety of data capture functions including LF/HF/UHF RFID reading, high-performance 1D/2D and sensitive fingerprint scanning, GPS, Camera and etc. This compact device is IP65 rated, the contained dust and water proof structure ensures its high ruggedness and durability. With its highly customizable ability, enterprises can deploy this single device in many areas, including retail, warehouse management, logistics, asset

ISO 9001 UCC    CE    CCC    RoHS

### Powerful Application Performance
The C3000 is based on WindowsCE 6.0 system, features the fast and powerful Cortex-A8 800MHz processor, together with 256MB of RAM, 4GB build-in flash storage, plus a SD card slot that can add up to 32GB of memory.

### Rugged and Compact
IP65
The C3000 is highly rugged, compact and durable. With an IP65 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.

### Powerful Battery
With the 3200mAh main battery and the optional 5200mAh pistol battery, you can be confident that your C3000 can always deliver results when you need it to.

### Extensive Data Capture Options
The C3000 can be integrated with best-in-class Motorola 1D/2D scanning engine, LF/HF/UHF RFID reading module, sensitive fingerprint snap-on and GPS. It allows users to choose data collection options as per industry need.

### Fast Wireless Connectivity
Whether indoors or outdoors, the C3000 provides fast and stable network connectivity with a variety of wireless connection options including WCDMA, WiFi, Bluetooth and GPRS.

### 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

Chainway is a leading manufacturer of rugged mobile computers and fixed data terminal in China. Founded in 2005, headquaters 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 works 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.

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| 1D Barcode | 2D Barcode | RFID | Fingerprint | 3G | WiFi | Bluetooth | GPS | Camera |

## Physical Characteristics

| | |
|---|---|
| Dimensions | 154mm x 77mm x 31mm/ 6.06 x 3.03 x 1.22in |
| Weight | 345g/ 12.17oz |
| Display | 3.5'' QVGA (240*320), 6.5M colors |
| Touch Panel | Rugged resistive touch panel |
| Power | Main battery: Li-ion, 3200mAh |
| | Pistol battery: Li-ion, 5200mAh (Optional) |
| Expansion Slot | 1 PSAM, 1 SIM/PSAM |
| | 1 MicroSD(TF) |
| Interfaces | MicroUSB(OTG) |
| Audio | 0.5W speaker |
| Keypad | Numeric / Qwerty |

## Performance

| | |
|---|---|
| CPU | Cortex-A8 800MHz |
| RAM | 256MB |
| ROM | 4GB |
| Expansion | Supports up to 32GB Micro SD card |

## Developing Environment

| | |
|---|---|
| Operating System | Windows Embedded CE 6.0 |
| SDK | Chainway Software Development Kit |
| Language | C++, C#, VB.NET |
| Tool | Visual Studio 2005/2008 |

## 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 1.5m drops to concrete across the operating temperature range |
| Tumble Specification | 1000 x 0.5m/1.64ft falls at room temperature |
| Sealing | IP65 |

## Communication (Optional)

| | |
|---|---|
| WLAN | IEEE802.11 b/g/n |
| | IEEE802.11 a/b/g/n |
| WWAN | GPRS(850/900/1800/1900MHz) |
| | WCDMA(900/2100MHz) |
| | WCDMA(850/2100MHz) |
| | WCDMA(850/1900MHz) |
| | CDMA2000 EVDO:800MHz |
| Bluetooth | Bluetooth 2.0+EDR |
| GPS | UBLOX NEO-6M (Low power consumption) |

## Other Modules (Optional)

| | |
|---|---|
| Camera | 5MP autofocus camera with flash |
| PSAM | ISO7816 Protocol, 2 PSAM slots (maximum) |

## Barcode Scanning (Optional)

### 1D Linear Scanner

| | |
|---|---|
| 1D Laser / CCD | Symbol SE965/EM-1350 |
| 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

| | |
|---|---|
| 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 |

\* For the UHF specifications, please check C3000UHF specification sheet

## Biometric (Optional)

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

## Accessories

AC Adapter

Snap-on

USB cable

Cradle (Optional)

Pistol (Optional)

Fingerprint Snap-on (Optional)

Carrying case (Optional)

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