

Rugged Handheld UHF Reader C5000U

High Industrial-Class, Multi-modules Customized, Multifunction Rugged Handheld UHF Reader



Features

Description

“ALL IN ONE” Design

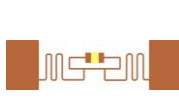
Optional modules including 1D/2D barcode scanning, RFID cards/tags reading under UHF protocols, WiFi/GPRS/Bluetooth communication, GPS positioning and image capturing.

More Rugged with Higher Industrial Standard

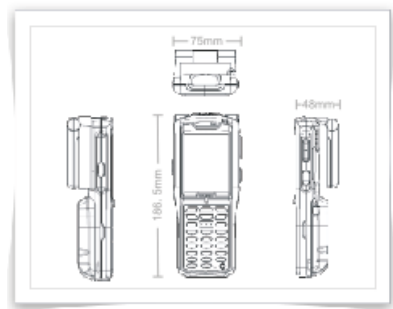
Rugged structure with IP64 rating, better dust-/wafer-proof capability and 1.5 m drop survival to concrete to ensure high performance under various extremely environments.

Expansibility & Customization

Various function modules such as infrared, fingerprint, thermal printer can be integrated according to specific project requirements. The UHF working frequency can be customized from 840 MHz to 960 MHz.



Parameters of C5000U



Physical characteristics

Dimensions: 186.5*75*48 mm

Weight: < 500 g (with battery)

Screen: 3.2" QVGA backlight TFT-LCD, 65 K colors. 240 x 320 (QVGA size)

Touch panel: glass analog resistive touch

Backlight: LED backlight

Battery: rechargeable li-ion polymer battery (3.7 V/4,000 mAh)

Expansion slots: s SIM/SAM, Micro SD (TF) card

Indicator: LED

Input method: touch input and keyboard input

Audio: 0.5 watt

Keyboard: numeric, full alphanumeric

Programming environment

.NET and C++ programming using Microsoft Visual Studio 2005&2008 or higher

Software Development Kits (SDK) provided

Operating system

Windows Embedded CE 6.0 core

Windows Embedded CE 6.0 pro

Environmental

Operating temperature: -20 °C ~ 50 °C

Storage temperature: -25 °C ~ 70 °C

Humidity: 5% RH ~ 95% RH (non-condensing)

Dropping survive: 1.5-meter drop test on six sides (concrete floor, under operating temperature range)

Rolling survive: 1,000 times, 0.5 meter, rolling by six contact surfaces

Environmental sealing: IP64

Performance

CPU: Samsung ARM920T@533 MHz

Memory: 128 MB RAM/1 GB Flash

Expansion Memory: 4G TF (standard), max 8G

Interfaces: USB 2.0; RS232



UHF

Operating frequency:

China: 840 ~ 845MHz, 920 ~ 925MHz

Europe: 865 ~ 868MHz (ETSI EN 302 208)

Other: 840 ~ 960MHz (for customization)

Protocol: EPC, GEN2/ISO18000-6C

Read range up to: 98.425 in (250 cm)

Antenna: 3dBi

Power: +10dBm ~ +30dBm



1D laser scanner

Brand: Symbol SE955

Types: UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS



2D scan engine

Brand: Symbol SE4500

Types: **1D:** all major codes;

2D: 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)



Wireless WAN

Network (WWAN): Wavecom GPRS/GSM

900/1800 MHz; 850/900/1800/1900MHz



Wireless LAN

WiFi: muRata IEEE802.11b/g



Wireless PAN

Bluetooth: Class II, 3-5 M



PSAM

Baud rate: 9600, 19200, 38400, 43000, 56000, 57600, 115200

SAM slots: maximum 2



GPS

Module: u-blox NEO-5Q

Performance: 50-channel u-blox 5 positioning engine, Internal GPS

Localization time: hot start-1 sec, warm start-38 secs, cold start-42 secs



Camera

Samsung 3.2 mega pixels, 2048 (H)*1536 (V), QXGA



Thermal printer

Size: 118*99*55 mm

Communication: Bluetooth 2.0; RS232

Paper width: 78 mm

Accessories: thermal paper, carrying case, power adapter, battery

Accessories

Standard: battery, charger/adaptor, data cables, stylus, hand strap, 2G micro SD (TF) card, protective film

Optional: cradle, thermal printer

Refer to Accessories Appendix

To learn more about the products of Shenzhen Chainway, please visit: <http://www.chainway.net>

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