



Handheld Computer C4 Red

Features

- Android 5.1.1
- Large 5.0" TFT-LCD
- Gorilla Glass 3 Screen
- Li-Ion Polymer Battery
- Wi-Fi/Bluetooth/GSM/GPS/3G
- 1D/2D Barcode Reader Optional
- Rear 8 MP Camera
- Optional Fingerprint Reader
- Optional PSAM Security
- ETSI & FCC Frequencies (UHF)
- IP65

RFID Options

- UHF (EPC C1 GEN2 / ISO18000-6C)
- HF (ISO14443A, ISO15693)
- LF (125kHz)

The C4 Red is a rugged Android Handheld Computer with integrated UHF, HF or LF RFID reader and antenna. With its compact and light-weight design as well as multiple mobile data capture options, C4 Red from iDTRONIC is the right mobile device choice for all kinds of outdoor and indoor uses.

Powerful RFID readers and the latest communication technology ensure reliable work on the go. C4 Red runs on a high performance Quad A53 1.3GHz quad-core processor, which enables enhanced work efficiency, better task flow and quicker responsive time.

Thanks to Android 5.1.1 OS, six function keypad and capacitive multi-touch display with LED backlight it is intuitive and easy-to-use - exactly the way you use your personal smart devices. A 8 megapixel camera with auto-focus and LED flash is also available.

IP65 rated C4 Red Handheld features 3G mobile telecommunications technology and global UHF support. 1D or 2D Barcode readers as well as fingerprint reader and PSAM security are optional.



Technical Data

Physical Characteristics

Dimension	170 x 85 x 23mm
Weight	Net 370g (including battery & wrist strap)
Display	Gorilla Glass 3 9H 5.0 in. TFT-LCD (720x1280) touch screen with LED backlight
Keypads	3 TP keys, 6 function keys, 4 side buttons
Expansions	2 PSAM, 1 SIM, 1 TF
Battery	Rechargeable li-ion polymer, 3.7V, 4500mAh

Performance Characteristics

CPU	Quad A53 1.3 GHz quad-core
RAM/ROM	2GB/16GB
Storage	MicroSD (max. 32GB expansion)

Programming Environment

Operating System	Android 5.1.1
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User Environment

Operating Temp.	-20 to 50°C / -4 to 122°F
Storage Temp.	-20 to 70°C / -4 to 158°F 10% - 90%RH (Non-condensing)
Drop Specifications	1.5 m / 5ft. drop to concrete across operating temperature range
ESD	±15kv air discharge, ±8kv direct discharge
Sealing	IP65

Communication

WLAN	2.4GHz/5.8GHz Dual Frequency, IEEE 802.11 a/b/g/n/ac
WWAN	TDD-LTE Band 38, 39, 40, 41; FDD-LTE Band 1, 2, 3, 4, 7, 17, 20; WCDMA (850/1900/2100MHz); GSM/GPRS/Edge (850/900/1800/1900MHz)
WPAN	Bluetooth Class v2.1+EDR, Bluetooth v3.0+HS, Bluetooth v4.0
GPS	GPS(embedded A-GPS), accuracy of 5 m

1D/2D Barcode Reader (optional)

1 D laser engine	Symbol SE955
Symbologies	All major 1D barcodes
2D CMOS Imager	Honeywell N6603
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.etc.

Fingerprint Reader (optional)

Sensor / Type	TCS1CT/ Capacitive, area sensor
Resolution	508 DPI
Performance	FRR<0.008%, FAR<0.005%
Capacity	1000

PSAM Security (optional)

Protocol	ISO7816
Baudrate	9600, 19200, 38400,43000, 56000, 57600, 115200
Slot	2 slots (maximum)

RFID Readers

	UHF	HF	LF
Frequency	865 - 868MHz / 902 - 928MHz	13.56MHz	125kHz
Protocol	EPC C1 GEN2 / ISO18000-6C	ISO14443A ISO15693	-
Antenna Gain	Circular antenna 2dBi	-	-
R/W Range	Up to 1.5 meters (tags and environment dependant)	Up to 8 centimeters	Up to 8 centimeters

Supported Standards / Tags

ISO18000-6C	Standard ISO 18000-6C (EPC Class 1 Generation 2) E.g.: Alien Higgs 2/3/4, Impinj Monza, NXP UCODE, etc.
ISO14443 A and compatible	Read/write: MIFARE® DESFire®EV1 2K / 4K / 8K, MIFARE® Classic Mini / 1K /4K, MIFARE Ultralight®, MIFARE Ultralight® C, MIFARE® Plus S / X, MIFARE® Pro X, NTAG 21x Read UID only: Read UID only of all other ISO14443A RFID tags
ISO15693 and compatible	EM4135, EM4043, EM4x33, EM4x35, I-Code SLI / SLIX, M24LR16/64, TI Tag-it HF-I, SRF55Vxx (my-d vicinity)
LF (125kHz)	Read/write: Hitag 1, Hitag 2, Hitag S, Titan (EM4050), EM4450/4550 and compatible tag types Read only: EM4200, FDX-B, Unique, Zodiac, and compatible tag types

Camera

Resolution	8.0 megapixel
Lens	Auto-focus with LED flash

Programming Environment

SDK	Handheld-Wireless Software Development Kit
Language	Java
Environment	Android Studio or Eclipse

Accessories (Optional)



Desktop Cradle USB

Carrying Case

Spare Battery

Product Versions



Version with Keypad



Version with optional Fingerprint Reader

Order Codes

Version	Order Code
C4 Red UHF ETSI (865 - 868MHz)	R-HH-C4R-UHF
C4 Red UHF FCC (920 - 925MHz)	R-HH-C4R-UHF-FCC
C4 Red HF (13.56MHz)	R-HH-C4R-HF
C4 Red LF (125KHz)	R-HH-C4R-LF

Options	Order Code
1D Barcode Scanner	xx-1DBC
2D Barcode Imager	xx-2DBC
Fingerprint Reader	xx-FPR

Accessories	Order Code
Desktop Cradle USB	R-HH-C4R-DTC
Spare Battery	R-HH-C4R-PS
Carrying Case	R-HH-C4R-C

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