



Handheld Computer C4 Orange

FEATURES

- Extremely stable performance
- High speed data communication
- Rugged ergonomic and over-molding design
- Extremely stable hardware display
- Highly customized structure
- Quick-charging
- Perfect service

RFID OPTIONS

- UHF (EPC C1 GEN2 / ISO18000-63)
- HF (ISO14443A, ISO15693)

PRODUCT DESCRIPTION

The C4 Orange is a rugged Android Handheld Computer with integrated UHF, HF or LF RFID reader and antenna. With its compact and lightweight design as well as multiple mobile data capture options, C4 Orange 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 Orange runs on a high performance Quad A53 1.3 GHz quad-core processor, which enables enhanced work efficiency, better task flow and quicker responsive time.

Thanks to Android 7.0 (Optional 5.1.1), 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. An 8.0 megapixel camera with auto-focus and LED flash is also available.

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



TECHNICAL DATA

PHYSICAL CHARACTERISTICS

Dimensions	162 × 78 × 22 mm +/- 2 mm
Weight	Net 350 g (including battery & wrist strap)
Display	Gorilla Glass 3 9H 4.7 in. TFT-LCD (720 × 1280) touch screen with LED backlight
Keypads	3 TP keys, 5 function keys, 4 side buttons
Expansions	2 PSAM, 1 SIM, 1 TF
Battery	Rechargeable li-ion polymer, 3.8 V, 4750 mAh
Interface	USB Micro-B

PERFORMANCE CHARACTERISTICS

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

PROGRAMMING ENVIRONMENT

Operating System	Android 7.0 (Optional 5.1.1)
------------------	------------------------------

USER ENVIRONMENT

Operating Temperature	-20 °C to 50 °C / -4 °F to 122 °F
Storage Temperature	-20 °C to 70 °C / -4 °F to 158 °F 10% - 90% RH (Non-condensing)
Humidity	5% RH to 95 % (non-condensing)
Drop Specifications	1.5 m / 5ft. drop to concrete across operating temperature range
ESD	±15 kv air discharge, ±8 kv direct discharge
Protection Class	IP65, IEC compliance

COMMUNICATION

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

PSAM SECURITY (OPTIONAL)

Protocol	ISO 7816
Baudrate	9600, 19200, 38400, 43000, 56000, 57600, 115200
Slot	2 slots (maximum)

1D BARCODE READER (OPTIONAL)

1D laser engine	Symbol SE955
Symbologies	All major 1D barcodes

2D BARCODE READER (OPTIONAL)

2D CMOS Imager	Newland EM2396 or EM3396
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.

RFID Readers

	UHF	HF
Frequency	865 – 868 MHz 902 – 928 MHz	13.56 MHz
Protocol	EPC C1 GEN2 ISO 18000-6C	ISO 14443A ISO 15693
Antenna Gain	Circular antenna (2dBi)	-
R/W Range	1 to 1.5 meters (tags and environment dependant)	2 to 8 cm

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.
ISO 14443 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
ISO 15693 and compatible	EM4135, EM4043, EM4x33, EM4x35, I-Code SLI / SLIX, M24LR16/64, TI Tag-it HF-I, SRF55Vxx (my-d vicinity)

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

ORDER CODES

VERSIONS	ORDER CODES
C4 Orange UHF ETSI (865 – 868 MHz)	R-HH-C4O-UHF
C4 Orange UHF FCC (920 – 925 MHz)	R-HH-C4O-UHF-FCC
C4 Orange HF (13.56 MHz)	R-HH-C4O-HF

OPTIONS	ORDER CODES
1D Barcode Scanner	xx-1DBC
2D Barcode Imager	xx-2DBC

ACCESSORIES	ORDER CODES
Desktop Cradle USB	R-HH-C4O-DTC
Spare Battery	R-HH-C4O-PS
Carrying Case	R-HH-C4O-C

iDTRONIC GmbH
Ludwig-Reichling-Straße 4
67059 Ludwigshafen
GERMANY

Phone +49 (0) 621 66 90 09 4-0
Fax +49 (0) 621 66 90 09 4-9
E-Mail: info@idtronic-rfid.com
Web: idtronic-rfid.com

For further information & prices, please contact info@idtronic-rfid.com

Subject to alteration without prior notice
©2020 iDTRONIC GmbH