



Mobile RFID

C9 BLACK



PRODUCT DESCRIPTION

The C9 Black from iDTRONIC is a versatile handheld computer built for the most demanding tasks in maintenance, access control, and logistics. Designed to support the most common RFID modules, it delivers flexible and reliable data capture across a wide range of applications. In access control, the C9 Black provides adaptable solutions, making it the perfect choice for securely managing access permissions in various environments.

For logistics, the C9 Black ensures efficient inventory management and precise tracking of goods. With the option to equip the device with a 1D / 2D barcode imager, it enhances data capture capabilities, streamlining operations and improving accuracy.

Additionally, the C9 Black includes an Android SDK, making it easy to integrate into your existing systems and significantly boosting the efficiency of your workflows.

APPLICATIONS

- Logistics Applications
- Access Control
- Maintenance

FEATURES

- UHF, HF - NFC, LF or LEGIC
- 1D / 2D Barcode Imager
- 4G LTE | Bluetooth | WiFi | GPS
- Android™ 10 “Q”
- IP65 Protection Class
- SDK (Android Studio or Eclipse)
- 5.5” Gorilla Glass Touchscreen
- 4.800 mAh Li-Ion Battery
- 13 MP Rear | 5 MP Front Camera

RFID OPTIONS

- UHF (EPC C1 GEN2 | ISO 18000-6C)
- HF (ISO 14443A, ISO 15693)
- NFC (NFC-IP1, NFC-IP2)
- LEGIC Prime | Advant
- LF (125 kHz | 134.2 kHz)



TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

Battery	Rechargeable li-ion Polymer 3.8 V, 4.800 mAh
Expansions	1 SIM, 1 TF, 2 PSAM
Interface	USB-C (Quick Charging Mode)
Fingerprint Reader	Integrated
RAM ROM	2 GB RAM 16 GB ROM or 4 GB RAM 64 GB ROM
Memory	MicroSD (max. 256 GB expansion)
ESD	±15 kv air discharge, ±8 kv direct discharge
Supported OS	Android™ 10 "Q"

COMMUNICATION SPECIFICATIONS

WLAN	D2.4GHz/5.0GHz Dual Frequency, IEEE 802.11 a/b/g/n/ac
WWAN	3G WCDMA WCDMA B1/2100;B2/1900;B5/850;B8/900; CDMA2000/EVDO 3G:TD/SCDMA 4G LTE FDD-LTE: B1/2100; B3/1800; B7/2600; B20/800; TDD-LTE: B38/B39/B40/B41 GSM B5/850; B8/900; B3/1800; B2/1900
WPAN	Bluetooth Class v2.1+EDR, Bluetooth v3.0+HS, Bluetooth v4.1, Bluetooth v.4.2
GPS	GPS (accuracy up to 5 m)

MECHANICAL CONDITIONS

Dimensions	166 × 79 × 27 mm ±2 mm
Weight	430 g
CPU	Cortex A73 2.0 GHz octa-core
Camera	Rear: 13.0 Megapixel Front: 5.0 Megapixel Autofocus with LED Flash
Display	Gorilla Glass 3 9H 5.5 in. TFT-LCD (720 × 1440) Touch screen with backlight
Keypads	4 TP keys, 4 function keys

ENVIRONMENTAL CONDITIONS

Operating Temperature	-20 °C up to +50 °C
Storage Temperature	-20 °C up to +70 °C
Humidity	5% RH to 95% RH (non-condensing)
Protection Class	IP65, IEC compliance

2D BARCODE IMAGER

	1D Laser Engine	2D CMOS Imager
	Zebra SE965	Zebra SE4710
Symbologies	All major 1D barcodes	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

SDK INFORMATION

SDK	Software Development Kit
Supported Languages	Javascript
Environment	Android Studio or Eclipse

SUPPORTED STANDARDS / TAGS

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)
ISO 11784 ISO 11785	Read only: EM4100 and EM4200
LEGIC	LEGIC RF-Standard: Full read/write operation: LEGIC Advant; LEGIC Prime Read UID only (SM4200 chip): MIFARE family (Classic, Mini, DES- FireEV1,Plus S/X, Pro X, Smart MX, Ultralight, Ultralight C), Infineon SLE, NTAG21x Read UID only: EM4x33, EM4x35, I-Code SLI/SLIX, M24LR16/64, Infineon SRF55Vxx (my-d vicinity), TI Tag-it HF-I, reads UID/CSN of Inside Secure tags, e.g. HID iCLASS ISO 18092 / NFC: Passive peer-to-peer mode initiator, NFC Tag 2, 3, 4 Sony Felica: Encryption not supported

ANTENNA SPECIFICATIONS	UHF	HF	NFC	LEGIC	LF
Frequency	865 – 868 MHz 920 – 925 MHz		13.56 MHz		125 kHz 134.2 kHz (FDX-B/HDX)
Protocol	EPC C1 GEN2 / ISO 18000-6C	ISO 14443A, 15693	NFC-IP1 NFC-IP2	LEGIC Prime, LEGIC Advant	ISO 11784 ISO 11785
Reading Range	up to 1.5 m*	up to 6 cm*		2 to 10cm**	

SUPPORTED SERVICES

Google Services	Supported
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****READING RANGE DEPENDING ON TAG, TAG ORIENTATION AND ENVIRONMENTAL CONDITIONS.**

SCOPE OF DELIVERY

Standard	1x C9 Black, 1x Power adapter, 1x Wrist strap, 1x USB cable
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ORDER CODES

VERSIONS	ORDER CODES
Mobile RFID C9 Black - UHF	R-HH-C9B-UHF
Mobile RFID C9 Black - HF	R-HH-C9B-HF
Mobile RFID C9 Black - NFC	R-HH-C9B-NFC
Mobile RFID C9 Black - LF: 125 kHz	R-HH-C9B-LF
Mobile RFID C9 Black - LF: 134.2 kHz	R-HH-C9B-134
Mobile RFID C9 Black - LEGIC	R-HH-C9B-LEGIC

BARCODE OPTIONS	ORDER CODES
2D Barcode Scanner	R-HH-C9B-2D

ACCESSORIES	ORDER CODES
Desktop Cradle	R-HH-C9T-HST
Carrying Case	R-HH-C9B-CC

PRODUCT PICTURES

