



# HANDHELD COMPUTER C9 BLACK GUN

## APPLICATIONS

- Logistics Applications
- Access Control
- Asset Tracking
- Maintenance

## FEATURES

- UHF | HF | NFC | LF
- Optional: 1D or 2D Code Reader
- 9.000 mAh Li-Ion Battery
- Android 9.0 "Pie"
- 4G LTE | Bluetooth | WiFi
- 5.5" Gorilla Glass Touch Screen
- 20 MP Rear | 5 MP Front Camera
- Auto-Focus with LED Flash
- IP65 Protection Class
- Android Studio or Eclipse
- SDK Included

## RFID OPTIONS

- UHF (EPC C1 GEN2/ISO 18000-6C)
- HF | NFC (ISO 14443 A/B, ISO 15693)
- LF (ISO 11784, ISO 11785)

## PRODUCT DESCRIPTION

The powerful C9 Black GUN is a true revolution in rugged handheld computing. The 5.5 inch display help drive efficiency and productivity in ways that were never previously possible. It was especially designed for Industry 4.0 and IoT Applications in demanding environments.

Capable of capture, extract, and analyze data in extrem and remote environments with its IP65 housing and a operating time of up to 8 hours, the iDTRONIC handheld computer is perfectly suitable for field applications such as aviation, public safety, construction, field sales and the maintenance sector.

The Android™ 9.0 - powered C9 Black GUN operates on a high performance Quad 73 2.0 GHz octa-core processor with 2 GB RAM / 16 GB ROM or 4 GB RAM / 64 GB ROM memory. The device is 31 mm thick and weights just 600 grams including battery.

A variety of handheld configurations with different Barcode modules are available. Users can select between a fully integrated UHF (ETSI / FCC), 13.56 MHz HF | NFC, or 125 kHz LF reader. On the other side it can be combined with an 1D or 2D Barcode imager which allows easy inventory control and reporting. Thanks to the built-in 20 megapixel rear camera with Auto-focus lens + LED flash and a 5 megapixel front camera, damage reporting in the maintenance area never have be easier.

The C9 Black GUN from iDTRONIC offers connectivity wherever you need it. It features the latest network communication technology including, Wi-Fi, WCDMA, GSM/GPRS/Edge, Bluetooth and embedded A-GPS.

Beside the hardware, the C9 product family offers an extensive range of documentation, accessories and warranty extensions that support your business applications in the best way.

## TECHNICAL DATA

### PHYSICAL CHARACTERISTICS

Dimensions	166 × 79 × 31 mm
Weight	600 g
Display	5.5 Inch IPS 720 × 1.440 with Backlight
Keypads	4 TP keys, 4 function keys
Expansions	1 SIM, 1 TF, 2 PSAM
Battery	Rechargeable li-ion Polymer 3.8 V, 9.000 mAh
Interface	USB-C (Quick Charging Mode)
Camera	Rear: 20.0 Megapixel   Front: 5.0 Megapixel Autofocus with LED Flash
Fingerprint Reader	Integrated

### PERFORMANCE CHARACTERISTICS

CPU	Cortex A73 2.0 GHz octa-core
RAM   ROM	2 GB   16 GB or 4 GB   64 GB
Memory	MicroSD (max. 256 GB expansion)

### USER ENVIRONMENT

Operating Temperature	-20 ° to +50 °C
Storage Temperature	-20 ° to +70 °C
Humidity	5% RH to 95% RH (non-condensing)
Drop Specifications	1.5 m drop to concrete across the operating temperature range
Protection Class	IP65, IEC compliance
ESD	±15kv air discharge, ±8kv direct discharge

### PROGRAMMING ENVIRONMENT

Operating System	Android 9.0 "Pie"
SDK	Software Development Kit
Language	Javascript
Environment	Android Studio or Eclipse

### COMMUNICATION

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

### 1D | 2D BARCODE IMAGERS

<b>1D</b> Honeywell N4313/Others	All major 1D barcodes
<b>2D</b> Zebra SE4710/ SE2100/Others	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, Maxi- Code, Postal Codes, US PostNet, US Planet, UK Pos- tal, Australian Postal, Japan Postal, Dutch Postal. etc.

### RFID READERS

	UHF	HF   NFC	LF
Frequency	865 – 868 MHz 920 – 925 MHz	13.56 MHz	125 kHz 134.2 kHz
Protocol	EPC C1 GEN2/ ISO 18000-6C	ISO 14443A ISO 15693	ISO 11784 ISO 11785
Antenna Gain	Circular (3 dBi)	–	–
Reading Range	Up to 10 m*	5 to 8 cm*	2 to 10 cm*

### SUPPORTED STANDARDS | TAGS

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	<p>Read/write: MIFARE® DESFire® EV1 2K / 4K / 8K, MIFARE® Classic Mini / 1K /4K, MIFARE Ultra- light®, MIFARE Ultralight® C, MIFARE® Plus S / X, MIFARE® Pro X, NTAG 21x</p> <p>Read UID only: Read UID only of all other ISO14443A RFID tags</p>
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	<p>Read/write: Hitag 1, Hitag 2, Hitag S, Titan (EM4050), EM4450/4550 and compatible tag types</p> <p>Read only: EM4200, FDX-B, Unique, Zodiac, and compatible tag types</p>

\*READING DISTANCE DEPENDS ON TAG, ANTENNA AND ENVIRONMENTAL CONDITIONS.

## APPLICATION EXAMPLES

### ACCESS CONTROL

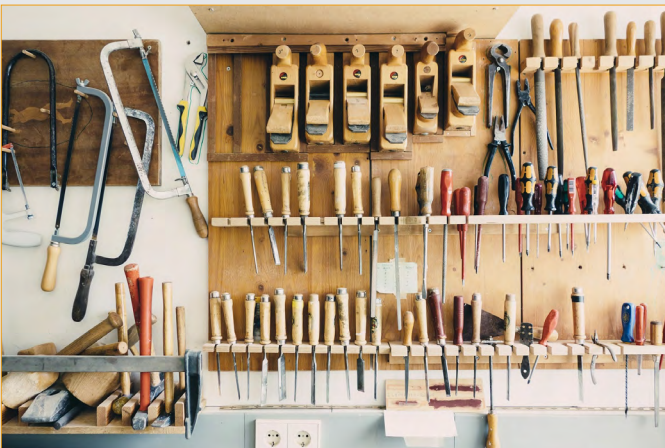


Access controls are widespread nowadays. Public organizers, sports events or trade fairs use this technology.

The identification of trade fair visitors and exhibitors on the basis of the trade fair pass can be easily determined by the powerful RFID scanner.

Especially with weather-related outdoor use in front of exhibition halls, the device withstands no problems thanks to its IP65 protection class. Temperature fluctuations do not affect the C9 Black GUN from -20 to +50 ° C.

### ASSET TRACKING



The tracking and assignment of assets within industrial applications is important. In automatic processes the right asset has to be identified fast for a specific procedure. Also it has to be available.

The C9 Black GUN identifies the assets availability with it's RFID scanner immediately. The data like usage time and lifecycle will get automatically transferred to the external data server for statistics.

This increases the workflow and the efficiency of the respective process. The assets are always available and ready for use.

### MAINTENANCE



Maintenance processes within workshops have to be organized conscientious. Customer inquiries for workshop appointments have increased in the last years.

The tracking of the parts, accessories, etc have to be on the right place at the right time. Availability must be guaranteed.

The C9 Black GUN identifies with the serial number of the device the right part or accessoire and thus ensures a smooth maintenance process.

The customer satisfaction will be increasing.

## PRODUCT PICTURES



## ORDER CODES

VERSIONS	ORDER CODE
C9 Black GUN (UHF)	R-HH-C9BG-UHF
C9 Black GUN (HF)	R-HH-C9BG-HF
C9 Black GUN (NFC)	R-HH-C9BG-NFC
C9 Black GUN (LF)	R-HH-C9BG-LF

BARCODE OPTIONS	ORDER CODE
1D Barcode Scanner	R-HH-C9BG-1D
2D Barcode Scanner	R-HH-C9BG-2D

ACCESSORIES	ORDER CODE
Desktop Cradle	R-HH-C9BG-DTC
Carrying Case	R-HH-C9BG-CC

iDTRONIC GmbH  
 Donnersbergweg 1  
 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](mailto:info@idtronic-rfid.com)  
 Web: [idtronic-rfid.com](http://idtronic-rfid.com)

For further information & prices, please contact [info@idtronic-rfid.com](mailto:info@idtronic-rfid.com)

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