



Handheld Computer

I-POLL^{2.0}

Features

- Impinj R2000 Reader Chip
- EPC Global Gen2 ISO 18000-6C
- 1.3" Blue OLED Display
- 3,300 mAh Li-ion
- Compatible with Windows 10, 8, 7, Vista XP Mobile, CE, MAC OS X, iOS 7 and higher, Android 6.0 and lower
- Power, Control, RFID Scan, Barcode Scan, Reset
- Bluetooth v4.1 Dual Mode (BT SPP, BLE, HID)
- 1D/2D Scanner (optional)

Barcode Options

- 1D laser engine (ZEBRA SE965)
- 2D CMOS Imager (Newland NLS-EM3396)

Features

- Inventory Management
- Retail Solutions
- Library Solutions
- Asset Tracking
- Rental Car Identification
- Luggage Tracking

iDTRONIC's multifunctional datacollector I-POLL^{2.0} combines the ability of RFID-/Barcode- reading with an robust IP68 housing. It was never easier to provide a modern way of data capturing in difficult and remote environments.

The internal UHF Long reader provides an reading range of up to 4 meters. In addition to the RFID reader, iDTRONIC's I-Poll^{2.0} can be equipped with a 1D or 2D Barcode scanning options for a complete range of IoT and Industry 4.0 applications.

Flexible communication options via BLUETOOTH v4.1 or USB & Magconn™ offers a handy and real time communication way for many scanning solutions with a host device. The communication can be handled through a classical virtual com-port communication or as a read only version with an HID option. As host systems, the I-POLL^{2.0} supports Windows, Android, iOS or MAC operating systems.

In addition the device can be operated independently due to the internal memory for up to 1.000 datasets and its 1.3" BLUE OLED Display.

The internal 3.3mAh li-ion polymer battery allows remote working shifts of up to 10 hours and can be easily recharged through the integrated Magcoon™ connector.

A range of useful accessories such as desktop cradles, hand straps and USB dongles completes the offer of this useful Industrial device.



RFID



1D/2D Barcode



Bluetooth



IP68



Android OS



iOS



Windows

Technical Data

Physical Characteristics

Dimension	64 x 220 x 27 mm
Weight	Net 246 g (including battery & wrist strap)
Display	1.3" Blue OLED
Keypads	1 Control key, 1 RFID key, 1 Barcode-Scanner key, 1 Power key, 1 Reset key, x, Min & Max Mute, Vibration On/Off
Battery	Rechargeable li-ion polymer, 3.300 mAh (charged via Magconn™)

Performance Characteristics

RAM/ROM	64 KB/512 KB
Storage	Up to 1000 RFID/Barcode sets with length of 60 bytes

User Environment

Operating Temp.	-10 to 50°C / -14 to 122°F
Storage Temp.	-20 to 70°C / -4 to 158°F 10% - 90%RH (Non-condensing)
Drop Specifications	1.3 m / 6 ft. drop to concrete across operating temperature range
ESD	±15kv air discharge, ±8kv direct discharge
Sealing	IP68

Data Communication

Wireless	BLUETOOTH 4.1 Dual Mode (BLE, BT SPP & HID)
Wired	USB or Magconn (comply with virtual comport)

1D/2D Barcode Reader (optional)

1 D laser engine	ZEBRA SE965
Symbologies	All major 1D barcodes
2D CMOS Imager	Newland NLS-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	
Frequency	860 – 960 MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna Gain	Max 30dBm, unit: 1dBm
R/W Range	Up to 4 meters (tags and environment dependant)

Supported Standards / Tags

ISO18000-63	Standard ISO 18000-63 (EPC Class 1 Generation 2) E.g.: Alien Higgs 2/3/4, Impinj Monza, NXP UCODE, etc.
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SDK Information

Supported OS	Android 4.4 & higher, iOS 7 & higher, Windows 10, 8, 7, Mobile, CE or MAC OSX
Support Languages	Extensive SDK, code samples, demo application and source code are available. Easy tool of serial commands are also available
Demo Software	Android & Windows Demo

Accessories (Optional)



Product Images



Order Codes

Version	Order Code
I-POLL ^{2.0}	R-HN-IPOLL2

Options	Order Code
1D Barcode Scanner	x-1DBC
2D Barcode Imager	x-2DBC

Accessories	Order Code
Magcoon™ Cradle	R-HN-IPOLL2-DTC
Magcoon™ Cable	R-HN-IPOLL2-DC
Hand Strap	R-HN-IPOLL2-HS
Neck Strap	R-HN-IPOLL2-NS
HID Dongle for PC	R-HN-IPOLL2-HIDD

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