iDTRONIC

Datacollector

I-COLLECT 2.0

PRODUCT DESCRIPTION

The Datacollector I-COLLECT 2.0 combines the ability of RFID and Barcode reading with an robust IP54 housing. It is available in both HF and UHF versions, ensuring compatibility with a wide range of RFID standards.

The internal HF reader provides an reading range of up to 4 centimeters. In addition to the RFID reader, the I-COLLECT 2.0 is equipped with an 2D Barcode scanning option for a complete range of applications within retail, logistics or stock management.

Flexible communication options via BLUETOOTH and the light-weight of only 98 g offers a handy and real time communication way for many scanning solutions with a host device. As host systems, the I-COLLECT 2.0 supports Windows, Android or LINUX operating systems.

In addition the device can be operated independently due to the internal memory for up to 100.000 datasets (tags and barcodes).

The internal 1.600 mAh li-ion polymer battery allows a scanning time of up to 14,000 in total or 1,000 per hour.

The Datacollector can be operated in two modes. The mode can be set in the software. The HID mode works as keyboard emulation. It can be connected to a keyboard via the Bluetooth interface. The data is entered directly at the PC. The I-COLLECT 2.0 can also work as a data collector. The data is scanned and then transferred to the PC via Bluetooth.

APPLICATIONS

· **Retail Markets**
· **Stock Management**
· **Libraries**

FEATURES

· **2D Barcode Optical Code Reader**
· **Bluetooth Connection**
· **USB 2.0 Interface**
· **Exchangable Battery**
· **IP54 Protection Class**

RFID OPTIONS

· **HF (ISO 14443 A, ISO 15693)**
· **UHF (EPC C1 GEN2 | ISO 18000-63)**

TECHNICAL DATA

PHYSICAL CHARACTERISTICS

Dimensions	50.4 x 24.8 x 118.4 mm
Weight	Net 98 g
Material	ABS
Keypads	1 Control Key
Battery	1.600 mAh Scanning time: 14.000 times in total 1.000 times in total

PERFORMANCE CHARACTERISTICS

Storage	100.000 data sets (tags and barcodes)
Interfaces	Bluetooth
Signals	LED + Buzzer
Imaging Sensor	960 x 640 COMS
Scanning Mode	Manual-Press, Auto-Scan and Continuous Scan
Keyboard Support	Multiple languages, including minority language
Light Type	Wave length = 675 nm ±3 nm High-light NIR LED
Recognition precision	Code 39, 6.6 mil
Scanning speed	1500 times pre second
Contrast	20%
Second Development	Not available
Angle Range	Horizontal 72° Vertical 82° Rotate 360°

USER ENVIRONMENT

Operating Temperature	-20 °C up to +55 °C
Storage Temperature	-40 °C up to +60 °C
Drop Specifications	Freely falling 3 times within 1.5 meter bearable
Protection Class	IP54

PROGRAMMING ENVIRONMENT

Operating Systems	Windows 10/11, Android, Linux

COMMUNICATION

WPAN	Bluetooth Class v2.1+EDR, Bluetooth v3.0+HS, Bluetooth v4.0
Transmit Range	15 m
Transmit Power	20 dBm
Receiver Power	20 dBm

2D BARCODE IMAGER

2D CMOS Imager	Honeywell N6603 / Newland EM3396
Symbologies	PDF417, Micro QR, DataMatrix, QR code, Aztec, EAN, Code 39

SUPPORTED STANDARDS / TAGS

RFID HF: 13.56 MHz

ISO 14443 A	MIFARE® Classic 1K /4K, MIFARE Ultralight®, MIFARE Ultralight® C, NTAG 21x, MIFARE DESFire, MIFARE Plus, and all other ISO14443A RFID tags
ISO 15693	EM4135, EM4043, EM4x33, EM4x35, I-Code SLI / SLI-X, M24LR16/64, TI Tag-it HF-I, SRF55Vxx (my-d vicinity)

RFID UHF: 868 MHz (ETSI). 902-928 MHz (FCC)

ISO 18000-63	Global UHF frequencies

ORDER CODES

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I-COLLECT 2.0 HF+ 2D Barcode Imager	R-HH-ICO-HF-2D
I-COLLECT 2.0 UHF+ 2D Barcode Imager	R-HH-ICO-UHF-2D

ACCESSORIES

Hand Strap	R-HH-ICO-AC-HST
Spare Battery	R-HH-ICO-AC-PS