iDTRONIC
PROFESSIONAL RFID

BLUEBOX
PANEL READER

APPLICATIONS

- Automation
- Access Control
- Staff Identification
- NFC Data Transfer

FEATURES

- Read & Write
- HF/NFC RFID Reader
- USB Interface
- 5 Vdc Power Supply
- Integrated Antenna
- Windows XP, Vista, 7, 8, 10
- Up to 3 cm Reading Range
- HID or VCP Working Mode

RFID OPTIONS

- **HF/NFC** (ISO 14443A/B, ISO 15693)

PRODUCT DESCRIPTION

The BLUEBOX Panel Reader is a small and compact RFID reader and writer. It is ideally suited for the integration into existing systems within access controls, employee identification, automation processes or data exchange via NFC.

The reader can easily equipped into existing doors, automation controls or systems as well as on metal surfacees with it's two pre-mounted holes.

The Panel Reader is equipped with an integrated antenna and is available in the RFID frequency HF/NFC (13.56 MHz). It supports transponders and tags with ISO 14443A/B and ISO 15693 standards.

The existing USB interface offers the possibility to connect the device to many devices.

The reader can be controlled and used via HID modus keyboard emulation (KEMU) or Virtual COM Port. The modes can be set up in the supplied software.

TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

Power Supply	5 Vdc ± 10 %
Power Consumption	2.5 W
Operating Frequency	HF/NFC: 13.56 MHz
Antenna	Integrated - Ø 28 mm
Communication Interfaces	Virtual COM Port (VCP) HID Keyboard Emulation (KEMU)
Connector	USB V+

PHYSICAL SPECIFICATIONS

Dimensions	Front: Ø 28 mm × 9 mm Rear: 41 × 34.5 × 30.7 mm Panel thickness: 2.5 to 4 mm Mounting holes: Ø 22 mm
Weight	30 g (without support plate and cable)
Material	Polycarbonate

USER ENVIRONMENT

Operating Temperature	-20 °C to +65 °C
Storage Temperature	-40 °C to +85 °C
Humidity	5 % - 95 % RH (Non-condensing)

RFID READER

RFID Type	HF/NFC	
Frequency	13.56 MHz	
Protocol	**ISO 14443 A-B**	**ISO 15693**
Supported Tags	MIFARE® Classic 1K /4K, MIFARE Ultralight®, MIFARE Ultralight® C, NTAG 21x, MIFARE DESFire, MIFARE Plus, and all other ISO14443A RFID tags	EM4135, EM4043, EM4x33, EM4x35, I-Code SLI / SLIX, M24LR16/64, TI Tag-it HF-I, SRF55Vxx (my-d vicinity)
Baudrate	0x0: 1200 bps; 0x1: 2400 bps; 0x2: 4800 bps; 0x3: 9600 bps; 0x4: 19200 bps;	
R/W Range	Up to 3 cm*	

APPLICABLE STANDARDS

EMC	EN 301489-1:2012-04 (v1.9.21) EN 301489-3:2013-12 (V1.6.1)
Radio Regulation	EN 300330-1:2015-08 (V1.8.1) EN 300330-2:2015-08 (V1.6.1)
Safety	EN 60950-1:2014-08 EN 62369-1:2010-03 EN 50364:2010-11
RoHS	EC Guideline 2011/65/EU
Certificate	FCC, CE

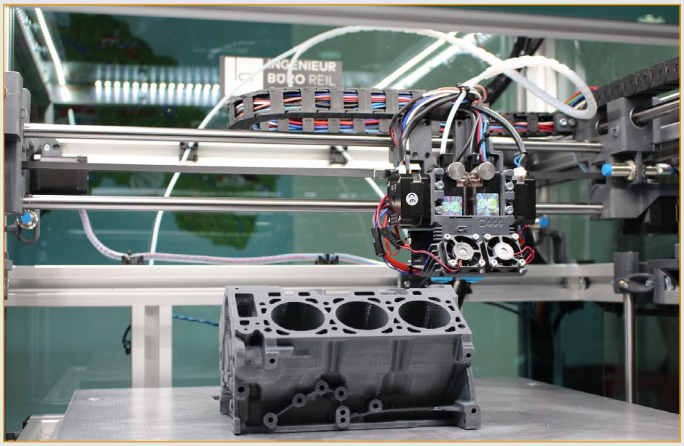
SDK INFORMATION

Supported OS	Windows XP SP3 32/64 bit Windows Vista 32/64 bit Windows 7 32/64 bit Windows 8/8.1 32/64 bit Windows 10 32/64 bit
Supported Languages	ASCII command protocol, C
Demo Software	Windows

*Reading distance depends on tag, antenna and environmental conditions

APPLICATION EXAMPLES

AUTOMATION PROCESSES



Different employees are assigned to different automation processes.
Each process step must be monitored and controlled by one employee.

Automation devices are equipped with a kind of operating panel. There, the reader can be easily integrated into existing devices or interfaces. The two pre-drilled holes in the reader module make installation simple and safe.

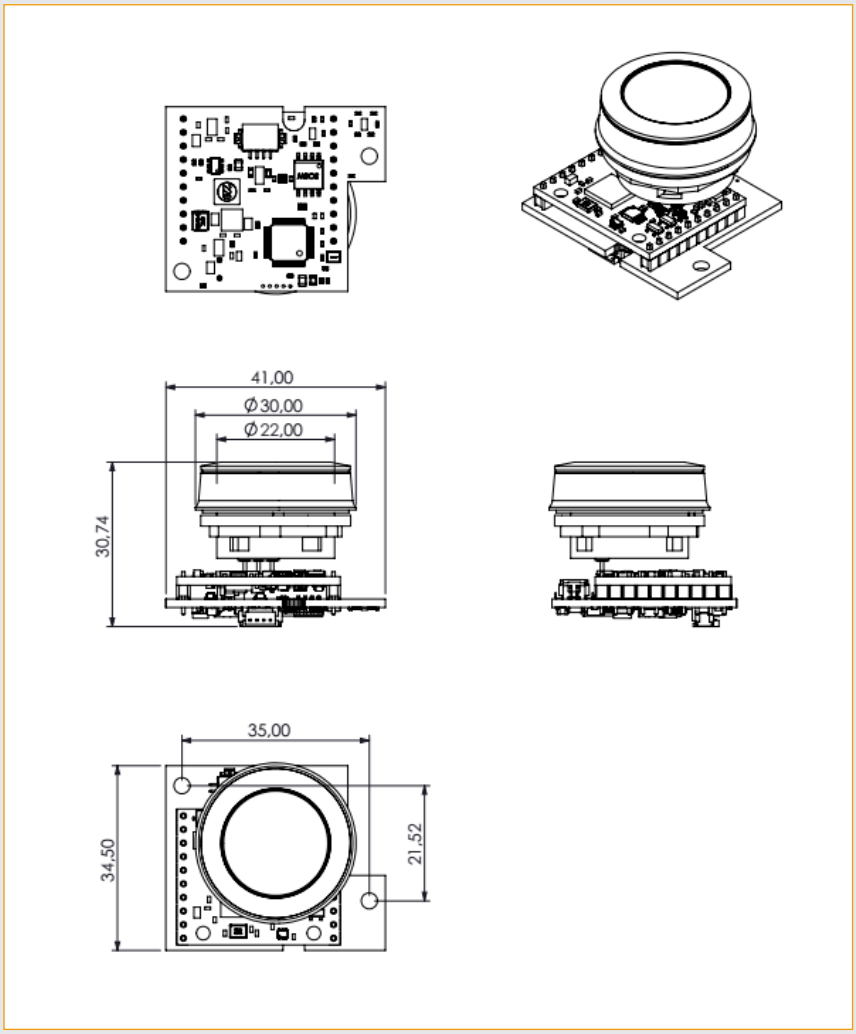
ACCESS CONTROL

Swing panels or railings are often not equipped with an access control authorisation.
People can simply pass through the swing panels without prior control.
The Panel Reader can be optimally integrated into barriers or swing doors for access control.

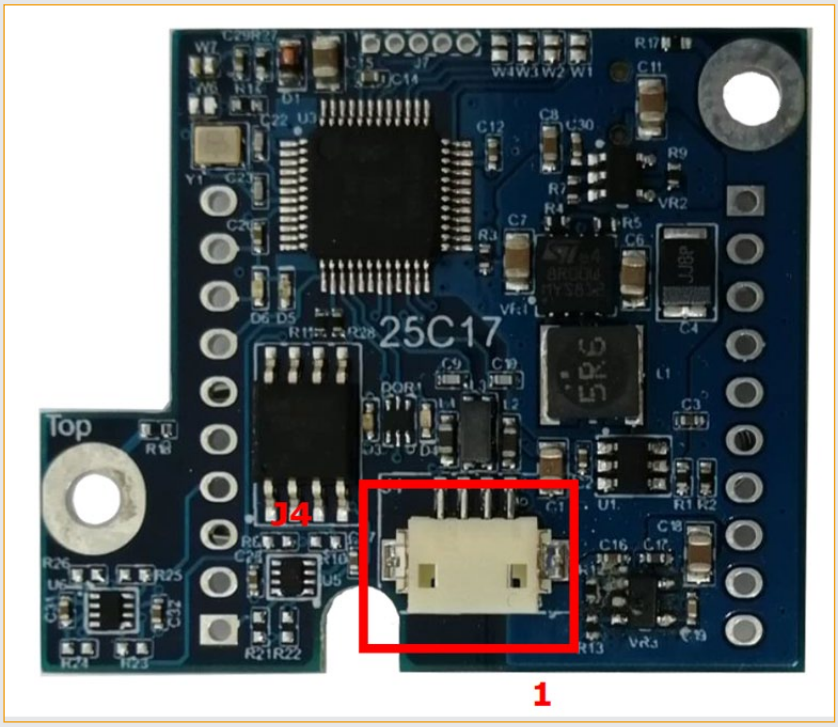
The optionally integrated HF or LF reader reads DESFire and MIFARE transponders and cards.

PRODUCT PICTURES

MECHANICAL VIEW



CONNECTIONS



NO.	PIN	MIN	TYPICAL	MAX	DESCRIPTION
1	USB V+	4.75 Vdc	5 Vdc	5.25 Vdc	DC power supply (VBUS)
2	USB D-				USB Data – (D-)
3	USB D+				USB Data + (D+)
4	USB Gnd				DC power supply (GND)

ORDER CODES

VERSION	ORDER CODE
Panel Reader - HF/NFC	R-IN-HF-3222N

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