

USB Encoder



Basic Controller with Integrated Antenna



Basic Controller with 1 Antenna Port



Controller with Integrated Antenna



Controller with 1 Antenna Port



Controller with 2 Antenna Ports



Cylindrical Reader


**Supported Transponders**

125kHz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
134.2kHz	-	-	-	Option	Option	Option	-
ISO11784/11785	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FDX-B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**Specifications**

Dimensions	90 × 160 × 30 mm	110 × 140 × 60 mm	110 × 140 × 60 mm	110 × 140 × 60 mm	110 × 140 × 60 mm	110 × 140 × 60 mm	M30 × 78 mm
Housing Material	PC	PC	PC	PC	PC	PC	Stainless steel, PC
Antenna	Internal	Internal	External (1 × Tuchel 3 Pin)	Internal	External (1 × Tuchel 3 Pin)	External (2 × Tuchel 3 Pin)	Internal
Temperature Range	-20 ... +55 °C	-20 ... +55 °C	-20 ... +55 °C	-20 ... +55 °C	-20 ... +55 °C	-20 ... +55 °C	-20 ... +55 °C
Voltage Supply	USB	24 Vdc ±10 %	24 Vdc ±10 %	24 Vdc ±10 %	24 Vdc ±10 %	24 Vdc ±10 %	24 Vdc ±10 %
Digital I/O (opto-isolated)	-	2	2	2	2	2	-
LEDs	4	4	4	8/12	8/12	8/12	-
Connectors	USB	PG9	PG9	M12	M12	M12	M12
Reading/Writing Distance	Up to 10 cm	Up to 15 cm	Up to 30 cm	Up to 15 cm	Up to 30 cm	Up to 30 cm	Up to 12 cm
Temperature Sensor	-	-	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-
Real-Time Clock	-	-	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-
Memory Extension	-	-	-	Micro SD-Slot	Micro SD-Slot	Micro SD-Slot	-
Stand-alone Mode	-	-	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-
Service Interface	-	-	-	USB	USB	USB	-
Integrated Webserver	-	-	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-
Working Modes	Scan Mode	Scan Mode, Notification Mode	Scan Mode, Notification Mode	Scan Mode, Notification Mode, Buffered Read Mode	Scan Mode, Notification Mode, Buffered Read Mode	Scan Mode, Notification Mode, Buffered Read Mode	Scan Mode
Interface Options	USB	RS232/RS485	RS232/RS485	RS232/RS485, Ethernet, Profibus, Profinet, Ether- net/IP, WLAN, GPRS	RS232/RS485, Ethernet, Profibus, Profinet, Ether- net/IP, WLAN, GPRS	RS232/RS485, Ethernet, Profibus, Profinet, Ether- net/IP, WLAN, GPRS	RS232, RS485

**Order Codes (125 kHz/134.2 kHz)**

RS232/RS485	3122L (USB)	5121L	5131L	5221L	5231L	5241L	5224L (RS232), 5225L (RS485)
Ethernet	-	-	-	5222L	5232L	5242L	-
Profibus	-	-	-	5223L	5233L	5243L	-

Cylindrical Antenna

On-Metal Antenna

Panel Antenna



Supported Transponders

Supported Transponders	Cylindrical Antenna	On-Metal Antenna	Panel Antenna
125kHz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
134.2kHz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ISO11784/11785	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FDX-B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Specifications

Specifications	Cylindrical Antenna	On-Metal Antenna	Panel Antenna
Dimensions	M18 × 90 mm M30 × 78 mm	70 × 70 mm	200 × 200 mm 210 × 450 mm
Housing Material	Stainless steel, PC	POM	PVC
Temperature Range	-20 ... +55 °C	-20 ... +55 °C	-20 ... +55 °C
Cable Length	1.2 m	1.2 m	1.2 m
Antenna Connector	Tuchel 3Pin	Tuchel 3Pin	Tuchel 3Pin
Reading/Writing Distance	Up to 13cm	Up to 7cm	Up to 30cm

Order Codes

Order Codes	Cylindrical Antenna	On-Metal Antenna	Panel Antenna
Configuration 1	9222L (M18)	9227L	9224L (200 × 200 mm)
Configuration 2	9223L (M30)		9225L (210 × 450 mm)

Remarks:

All BLUEBOX controllers are IP65 protected.  
All BLUEBOX LF products are CE certified.

iDTRONIC provides a 3-year warranty for all BLUEBOX products.  
Delivery of controllers includes complete SDK.