

UHF Reader	OEM Embedded	USB Encoder	Basic controller	CX controller	Advant controller
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**Supported Transponder**

ISO18000-6B	-	-	-	-	Option
ISO18000-6C	✓	✓	✓	✓	✓
EPC Class1 Gen2					
Supported Frequency	865-867 MHz (ETSI) 902-928 MHz (FCC)	865-867 MHz (ETSI) 902-928 MHz (FCC)	865-867 MHz (ETSI) 902-928 MHz (FCC)	865-867 MHz (ETSI) 902-928 MHz (FCC)	865-867 MHz (ETSI) 902-928 MHz (FCC)

**Specifications**

Dimensions	30x38x6,5 mm	90x160x30 mm	110x140x60 mm	110x140x60 mm	110x140x60 mm
Housing material	PC board	PC	PC	Aluminum/PC	Aluminum/PC
Housing protection	-	IP40	IP65	IP67	IP67
Antenna	External	Internal	Internal-External (1)	Internal-External (1-2)	Internal-External(1-4)
Temperature Range	-35 +65 °C	-20...+55°C	-20...+55°C	-20...+55°C	-20...+55°C
Supply voltage	5 V dc	USB	10-36 Vdc	10-36 Vdc	10-36 Vdc
Digital I/O (opto)	2	-	2	4	2
LED	2	4	4	3	4/8
Connectors	Soldering strip	USB	PG9	M12 / RJ45	M12 / TNC
Transmit power	+20 dBm	+20 dBm	+20 dBm	+30 dBm	+30 dBm
Dense Reader Mode	-	-	-	✓	✓
Real Time Clock	-	-	-	option	✓
Memory Extension	-	-	-	-	Micro SD Slot
Stand Alone Mode	-	-	-	-	✓
Service Interface	-	-	-	USB	USB
Integrated Webservice	-	-	-	-	✓
RSSI info	-	-	✓	✓	✓
Working Modes	Scan Mode	Scan Mode Notification Mode Buffered Read Mode	Scan Mode Notification Mode Buffered Read Mode	Scan Mode Notification Mode Buffered Read Mode	Scan Mode Notification Mode Buffered Read Mode
Host Interface	RS232, TTL	USB	RS232/RS485	Ethernet, RS232/RS485	Ethernet, Profibus RS232/RS485

UHF Antenna	Cylindrical	Near Field	Low Range	Mid Range	Long Range	Long Range High Gain	Basic Circular	Basic Linear
								
Supported Frequency	865-867MHz (ETSI) 902-928MHz (FCC)	865-960 MHz (Global)	865-867MHz (ETSI) 902-928MHz (FCC)	865-867MHz (ETSI) 902-928MHz (FCC)	865-867MHz (ETSI) 902-928MHz (FCC)	865-867MHz (ETSI) 902-928MHz (FCC)	865-960 MHz (Global)	865-960 MHz (Global)
<b>Specifications</b>								
Dimensions	M30 x 60 mm	90x63x31 mm	90x63x31 mm	154x126x36 mm	270x270x45 mm	555x262x59 mm	245x235x40 mm	245x235x40 mm
Housing material	Stainless Steel +PC	PC	PC	PC	PC + Aluminum	Stainless Steel + PC	PC + Aluminum coated	PC + Aluminum coated
Protection Class	IP65	IP67	IP67	IP67	IP65	IP65	IP65	IP65
Temperature Range	-20....+55°C	-20....+55°C	-20....+55°C	-20....+55°C	-20....+55°C	-20....+55°C	-20....+55°C	-20....+55°C
Antenna Connector	TNC (Female)	TNC (Female)	TNC (Female)	TNC (Female)	TNC (Female)	TNC (Female)	TNC (Female)	TNC (Female)
Reading Writing Distance	< 20 cm	< 7 cm (with NF Tag)	< 7 cm	Up to 2 mt	Up to 7 mt	Up to 10 mt	Up to 6 mt	Up to 6mt
EIFF	-	> 20 dB	> 15 dB					
Antenna Gain	-	< -15 dBi	< -30 dBi	4 dBic	8.5 dBic	11 dBic	7 dBic	8 dBic
Beam width (V/H)	-	-	-	100° / 100°	69° / 69°	30° / 70°	67° / 69°	74°
Axial Ratio	-	-	-	2dB	1 dB	< 2 dB		
Polarization	Circular	-	-	Circular	Circular	Circular	Circular	Linear

**Remarks:**

- All tBLUEBOX controllers are IP65 protected and CE approved
- Interface cables, Antenna cables and Power supply units are not included in the controller package, please check the available accessory list