

Handheld RFID Reader

RFR900 Series

Ergonomic, Durable Best-in-class

Outstanding Visibility

RFR900 provides exceptional capturing performance in both tag recognition rate and accuracy. It offers complete data transference with purpose-built design.

Long Range and High-speed RFID Reading

RFR900 combines high-speed reading with the ability to read over 900 tags per second with an extended reading distance of up to 6 meters. In addition, RFR900 is able to store over 40,000 RFID tags in batch mode.

Ergonomic RFID Pistol Grip

RFR900 enables you to add long range UHF RFID reading capability to EF400, EF500, EF500R. Need to read barcodes too? Just press the button on the side of the mobile computer to switch between RFID and barcode scanning.

SDK for Easy Integration

Bluebird's offers a software developer kit (SDK) with a full set of APIs, making it easier to integrate RFID reading to any application.

Industrial-grade Durability

RFR900 incorporates Bluebird's proprietary TankSmith[™] technology, which means it has been tested for maximum reliability in tough, industrial environments. It features a 1.2 meter (4ft.) drop specification and an IP52 rating that protects it against water and dust.









RFR900 Series Specifications

PHYSICAL CHARACTERISTICS Dimensions (L × W × D) RFR9005 (Stand-alone Model with Barcode Scanner): 146.2 X 70 X 134.8 mm PHYSICAL CHARACTERISTICS RFR900: 3330 RFR9005: 315g RFR900: 3330 RFR9005: 315g Power Standard 3.64V, 3400 mAh (RFR900) Extended 3.64V, 4,000 mAh Notification 5 LED and audible tone Configurations RFID only or RFID with 1D/2D Imager User Input Trigger, 2 push button switch (Mode Change, Power) Standards Supported GEN2 V2 Standards Supported GEN2 V2 Fastesit Read Rate 900+ Tags/sec Nominal 20+ ft/ 6+ m Read Range VS: 902-928 MHz, EU: 865-868 MHz, JPI: 916-921 MHz, JP2: 916-923 MHz, CN: 920.5-924.5 MHz PERFORMANCE Frequency Range CN: 920.5-924.5 MHz VIRELESS PAN Bluetooth Bluetooth V2.1+EDR, Class 2 VIRELESS PAN Bluetooth Bluetooth V2.1+EDR, Class 2 DATA CAPTURE OPerating Temp. -20°C to 6°C / -4°F to 140°F Storage Temp. -30°C to 70°C / -22°F to 158°F Charging Temp. -30°C to 70°C / -22°F to 158°F Charging Temp. -30°C to 70			
PHYSICAL CHARACTERISTICS RFR900: 333g RFR900S: 315g Power Standard 3.64V, 3400 mAh (RFR900) Extended 3.64V, 4,000 mAh Notification 5 LED and audible tone Configurations RFID only or RFID with 1D/2D Imager User Input Trigger, 2 push button switch (Mode Change, Power) Standards Scenards Supported GEN2 V2 Fastest Read Rate 900+ Tags/sec Nominal PERFORMANCE Read Range Performance Frequency (N: 902-928 MHz, EU: 865-868 MHz, JP1: 916-921 MHz, JP2: 916-923 MHz, Range COMMUNICATION Interface WRELESS PAN Bluetooth Bluetooth VIRELESS PAN Bluetooth Dix2D imager (Available only RFR900S)		Dimensions	RFR900: 146.2 x 70 x 148.7 mm
Weight RFR900S: 315g PHYSICAL CHARACTERISTICS Power Standard 3.64V, 3400 mAh (RFR900) Extended 3.64V, 4,000 mAh Power Standard 3.64V, 3050 mAh (RFR900S) Extended 3.64V, 4,000 mAh Notification 5 LED and audible torne Configurations RFID only or RFID with 1D/2D Imager User Input Trigger, 2 push button switch (Mode Change, Power) Standards GEN2 V2 Fastest Read Rate 900+ Tags/sec Nominal 20+ ft/ 6+ m Read Range 20+ ft/ 6+ m PERFORMANCE Frequency (NS: 902-928 MHz, EU: 865-868 MHz, JP1: 916-921 MHz, JP2: 916-923 MHz, CN: 920.5-924.5 MHz VIS: 902-928 MHz, EU: 865-868 MHz, JP1: 916-921 MHz, JP2: 916-923 MHz, CN: 920.5-924.5 MHz VIRELESS PAN Bluetooth Batch Mode Memory Store 40,000+ RFID Tags VIRELESS PAN Bluetooth Bluetooth Bluetooth Bluetooth Bluetooth Operating Temp. -20°C to 60°C / .4°F to 140°F Storage Temp. -30°C to 70°C / .42°F to 158°F Charging Temp. -20°C to 45°C / 14°F to 113°F Humidity 95% non-condensing		(L x W x D)	RFR900S (Stand-alone Model with Barcode Scanner): 146.2 X 70 X 134.8 mm
PHYSICAL CHARACTERISTICS Viser replaceable Battery Standard 3.64V, 3400 mAh (RFR900) Extended 3.64V, 4,000 mAh Power Standard 3.64V, 3050 mAh (RFR900S) Extended 3.64V, 4,000 mAh Notification 5 LED and audible tone Configurations RFID only or RFID with 1D/2D Imager User Input Trigger, 2 push button switch (Mode Change, Power) Standards Supported GEN2 V2 Fastest Read Rate 900+ Tags/sec Nominal PERFORMANCE Frequency Frequency US: 902-928 MHz, EU: 865-868 MHz, JP1: 916-921 MHz, JP2: 916-923 MHz, CN: 320.5-924.5 MHz VIRELESS PAN Bluetooth Bluetooth Store 40,000+ RFID Tags COMMUNICATION Interface WIRELESS PAN Bluetooth Bluetooth Bluetooth V2.1+EDR, Class 2 Operating Temp. -20°C to 60°C / -4°F to 140°F Storage Temp. -30°C to 70°C / -42°F to 158°F Charging Temp. -20°C to 60°C / -4°F to 113°F Humidity 95% non-condensing USER Drop Spec. 1.2 m/4 ft. drop per MIL-STD 810G Tumble Spec. 1000 drops (500 tumbles, 1.6 ft./0.5 m) at room temperature		Weight	RFR900: 333g
PHYSICAL CHARACTERISTICS Power Standard 3.64V, 3400 mAh (RFR900) Extended 3.64V, 4,000 mAh Standard 3.64V, 3050 mAh (RFR900S) Extended 3.64V, 4,000 mAh Notification 5 LED and audible tone Configurations RFID only or RFID with 1D/2D Imager User Input User Input Trigger, 2 push button switch (Mode Change, Power) Standards Supported GEN2 V2 Fastest Read Rate 900+ Tags/sec Nominal Read Range 20+ ft./ 6+ m PERFORMANCE Frequency (Read Range US: 902-928 MHz, EU: 865-868 MHz, JP1: 916-921 MHz, JP2: 916-923 MHz, CN: 920.5-924.5 MHz VIRELESS PAN Blatch Mode Memory Store 40,000+ RFID Tags VIRELESS PAN Bluetooth Bluetooth V2.1+EDR, Class 2 DATA CAPTURE Scanning 1D&2D imager (Available only RFR900S) Operating Temp. -20°C to 60°C / -4°F to 140°F Storage Temp. -30°C to 70°C / -22°F to 158°F Charging Temp. -20°C to 60°C / -4°F to 140°F Storage Temp. -30°C to 70°C / -22°F to 158°F Charging Temp. -30°C to 70°C / -22°F to 158°F Charging Temp. -0°C to 45°C / 14°F to 113°F Hu			
PHYSICAL CHARACTERISTICS Power Extended 3.64V, 4,000 mAh Standard 3.64V, 3050 mAh (RFR900S) Extended 3.64V, 4,000 mAh Standard 3.64V, 4,000 mAh Notification 5 LED and audible tone Configurations RFID only or RFID with 1D/2D Imager User Input Trigger, 2 push button switch (Mode Change, Power) Standards GEN2 V2 Supported Fastest Read Rate 900+ Tags/sec Nominal Read Range 20+ ft / 6+ m Read Range CN #1/.66-868 MHz, JP1: 916-921 MHz, JP2: 916-923 MHz, CN #2920.5-924.5 MHz Rrequency US: 902-928 MHz, EU: 865-868 MHz, JP1: 916-921 MHz, JP2: 916-923 MHz, CN #2920.5-924.5 MHz VIRELESS PAN Bluetontow Blueto Mode Store 40,000+ RFID Tags WIRELESS PAN Bluetooth Bluetooth Bluetooth V2.1+EDR, Class 2 DATA CAPTURE Scanning VIRELESS PAN Bluetooth Bluetooth Bluetooth V2.1+EDR, Class 2 DATA CAPTURE Scanning Operating Temp. -20°C to 60°C / -4°F to 140°F Storage Temp. -30°C to 70°C / -22°F to 158°F Ch		Power	
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Extended 3.64V, 4,000 mAh Notification 5 LED and audible tone Configurations RFID only or RFID with 1D/2D Imager User Input Trigger, 2 push button switch (Mode Change, Power) Standards Standards Supported GEN2 V2 Fastest Read Rate 900+ Tags/sec Nominal 20+ ft./ 6+ m Read Range 20+ ft./ 6+ m Frequency US: 902-928 MHz, EU: 865-868 MHz, JP1: 916-921 MHz, JP2: 916-923 MHz, CN: 920.5-924.5 MHz / RF Output Russian Federation: 866-868 MHz Batch Mode Memory Store 40,000+ RFID Tags VIRELESS PAN Bluetooth Bluetooth V2.1+EDR, Class 2 DATA CAPTURE Scanning 1D&2D imager (Available only RFR900S) Operating Temp. -20°C to 60°C / -4°F to 140°F Storage Temp. -30°C to 70°C / -22°F to 158°F Charging Temp. 0°C to 45°C / 14°F to 113°F Humidity 95% non-condensing USER Drop Spec. 1.2 m/4 ft. drop per MIL-STD 810G Tumble Spec. 1000 drops (500 tumbles, 1.6 ft./0.5 m) at room temperature Sealing IP52			
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USER Drop Spec. 1.2 m/4 ft. drop per MIL-STD 810G ENVIRONMENT Tumble Spec. 1000 drops (500 tumbles, 1.6 ft./0.5 m) at room temperature Sealing IP52			
ENVIRONMENT Tumble Spec. 1000 drops (500 tumbles, 1.6 ft./0.5 m) at room temperature Sealing IP52		Humidity	95% non-condensing
Sealing IP52		Drop Spec.	
		Tumble Spec.	1000 drops (500 tumbles, 1.6 ft./0.5 m) at room temperature
Electrostatic		Sealing	IP52
		Electrostatic	
Discharge +/-15kVdc air discharge, +/-8kVdc direct discharge, +/-8kVdc indirect discharge		0	+/-15kVdc air discharge, +/-8kVdc direct discharge, +/-8kVdc indirect discharge
(ESD)		(ESD)	

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