



FXR90 Ultra-Rugged Fixed RFID Reader, UHF RFID, Bluetooth 5.3, Wi-Fi 6, Reader Only, 4 External Antenna Ports, 800MHz & 900MHz

Maximize asset tracking capabilities in the harshest environments with the Zebra FXR90 Ultra-Rugged Fixed RFID readers. Engineered with industrial-grade IP sealing and an expanded operating temperature range, it's built to perform reliably anywhere, even in industrial and outdoor settings.

Keep your supply chain moving and track your assets and inventory even in extreme weather with the versatile, easy-to-use Zebra FXR90 Ultra-Rugged Fixed RFID readers. Designed to be easily deployed in the toughest conditions, FXR90 RFID readers are built to perform reliably in a wide range of harsh environments—both indoors and outside.



With a ruggedized design and robust, industry-leading performance, such as read rates of 1,300+ tags per second, FXR90 RFID readers enable greater visibility and real-time data wherever you need it most. The dual IP65/67 sealing and extended operating temperature range allow workers to track critical items even where dirt and moisture infiltration or extreme temperatures are common. That's because the FXR90 and all of its connectors are fully sealed, allowing you to place it in brutal conditions where it can withstand repeated washdowns.

Key features:

- Extended operating temperature range for use in refrigeration chains (-40°C to 65°C)
- Higher reading speed - up to 1,300 tags per second
- Easy network connectivity through Wi-Fi 6
- Wireless connection of mobile devices to the reader via Bluetooth
- IoT connector for data provision using modern, secure protocols
- Versatile power options
- Flexible mounting options for various environments
- IP65/IP67 rating, including sealed M12 connectors
- Easy management and configuration



Technical Description

Functionality & Operation

Antennas, Antenna inputs	4 External RP-TNC Antenna Ports
Frequency	EU: UHF 865–868 MHz; 0–33 dBm (ERP), 916.3, 917.5, and 918.7 MHz; 0–36 dBm(ERP)
Indicators	LED
Communication interface	Ethernet, GPIO , 2x USB
Connectors	M12
Maximal transmit power	33dBm
WLAN Features	IEEE 802.11ax/ac/a/b/g/n 2X2, MU-MIMO,IPv4
WPAN Features	Class 1, Bluetooth v5.3 with BLE
Operating system	Linux
Memory	2GB LP DDR4 RAM
Expansion slot	eMMC Flash
CPU Type	NXP iMX8 Mini Quad Cortex-A53
RFID transponder protocols	ISO 18000-6C (EPC Class 1 Gen2V2)
Data memory	16GB eMMC Flash
Wireless communication	Bluetooth®, NFC, WiFi 6

Optical

Scanning rate	1300 / sec
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Electrical

Power Source	Direct 12 VDC to 24 VDC via flying leads, Zebra AC/DC IP67 Sealed Power Supply, Zebra AC/DC Indoor Power Supply, Zebra DC/DC IP67 Sealed Power Supply, Power-over-Ethernet+ Injector (802.3at), Power-over-Ethernet Injector (802.3af)
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Mechanical

Color	black
Body housing	Diecast Aluminum (Reader Body), Polycarbonate/Polybutylene Terephthalate Blend (Antenna Radomes)
Dimensions	Width: 29.1cm, Height: 5.2cm Length: 25.4cm
Weight	2.5kg

Environment

Vibrations resistance	MIL-STD-810 Method 514, Procedure I
Operating temperature	-40 to 65°C

CODEWARE, s.r.o.

Jaromírova 484/37
120 00 Praha 2 - Nusle
IČ: 61061395, DIČ: CZ61061395

+420 222 562 444
codeware@codeware.cz
<https://www.codeware.cz/>

