FXR60 Fixed RFID Readers

Flexible design. Simple deployment.

Zebra FXR60 Fixed RFID Readers are designed to make RFID deployments easier, smarter, and more adaptable. Versatile configurations—including four-port, eight-port, and integrated antenna options—support a wide range of applications and use cases across retail, transportation and logistics, and manufacturing operations. With Wi-Fi®, Bluetooth®, and Ethernet connectivity, streamlined installation features, and advanced RFID performance, the FXR60 all-in-one reader delivers the visibility, efficiency, and reliability modern operations require. And powerful edge computing architecture allows the FXR60 to process RFID data closer to the source, reducing latency and enabling faster operational decisions.



Smart RFID for modern operations

Simplified deployment
FXR60 readers have wireless technologies built in for easy configuration and management of a fleet of readers. Integrated Wi-Fi and Bluetooth 5.3 wireless capability connects to almost any Android™ or Windows device. Four or eight antenna ports meet diverse configuration needs. And an optional integrated antenna simplifies deployment by eliminating the need to source, install, and maintain additional antennas and cables.

Easy installation
Simple, secure FAKRA connectors replace threaded antenna ports to make FXR60 readers faster and easier to install, reducing the risk of connection issues.

Flexible networking
Wi-Fi, Bluetooth, and Ethernet connectivity options offer more flexibility to build a reader network that works for your operations. Wi-Fi allows for easy installation in remote areas. Bluetooth Low Energy (BLE) bridging capability lets you capture your RFID tags and BLE beacons all on one device.

Industry-leading performance
With a robust read rate of 1,300+ tags per second, FXR60 readers enable greater visibility and real-time data where you need it most. And with -92 dBm receiver sensitivity, you can expect increased accuracy and reliable performance in even the most challenging applications.

Edge computing
Powered by a modern quad-core processor and expanded memory, the FXR60 can aggregate, analyze, and modify RFID data directly on the device before passing it along to enterprise systems or cloud applications, reducing latency and enabling real-time decision-making.

Supports GEN2X™

FXR60 Fixed RFID Readers offer advanced on-device processing and easy deployment.
For more information, please visit www.zebra.com/fxr60

Integrated stack lights
Configurable, multi-colored stack lights provide instant visual feedback on tag reads, system status, and workflow events, helping operators quickly identify issues, improve productivity, and simplify troubleshooting.

HDMI port
An integrated Micro HDMI port enables FXR60 readers to connect to an external touchscreen or monitor for easy configuration or to create standalone workstations or kiosks.

Integrated antenna
An integrated dual-element antenna provides both near-field coverage for limited read zones, such as drop boxes and workstations, and far-field coverage for larger areas. This allows you to utilize a single platform for multiple workflows, from item-level inventory management to high-volume asset tracking.

NFC pairing
A built-in near-field communication (NFC) tag enables quick tap-to-pair connections with compatible devices, such as a tablet, for real-time viewing of scanned RFID data.

Connect applications with IoT Connector
Bring RFID data directly into the applications and systems that power your operations. Built-in IoT Connector delivers tag data, reader events, and reader information to enterprise applications and cloud services, helping teams respond quickly to what is happening across their environment. REST APIs and MQTT support provide flexible options for integration, while configurable endpoints and authentication help connect data securely into existing workflows and business systems.

Versatile power options
Choose between an AC/DC power supply or Power-over-Ethernet (PoE/PoE+) to suit your operating needs and conditions.

Available mounting options
FXR60 readers come standard with flush mount brackets as well as a 100 x 100 mm VESA mount pattern for universal mounting to accommodate practically any installation scenario. An optional articulating VESA mount accessory can be used to attach the FXR60 reader to a wall or pole. This accessory is compatible with most pole sizes, so you have the flexibility of many options for installation.

Get the most out of your RFID investment—from the leader in RFID
Zebra has more fixed, handheld, and portal RFID systems installed than any other RFID provider, giving you the peace of mind that comes from choosing enterprise-grade, secure RFID products that are well-tested in practically every industry—and in some of the world's largest companies. And with over 950 RFID technology patents that have allowed us to deliver many industry firsts, you can count on Zebra's best-in-class advanced technologies to maximize the performance of your RFID solution.

Specifications

Physical characteristics	
Dimensions	Standard or Premium 4-port: 8.4 x 5.8 x 1.2 inches 214 x 148 x 30 mm Standard or Premium 8-port: 8.4 x 5.8 x 1.9 inches 214 x 148 x 49 mm Premium 4-port with Integrated Antenna: 8.4 x 5.8 x 1.7 inches 214 x 148 x 44 mm
Weight	Standard 4-port: 2.61 lbs. / 1.184 kg Standard 8-port: 2.78 lbs. / 1.263 kg Premium 4-port: 2.68 lbs. / 1.216 kg Premium 8-port: 2.85 lbs. / 1.294 kg Premium 4-port with Integrated Antenna: 2.87 lbs. / 1.302 kg
Housing material	Recycled diecast aluminum (front and rear housings) PC/ABS (antenna radomes)
Visual status indicators	Power Activity Status Application Ethernet Wi-Fi Bluetooth
System characteristics	
CPU	NXP® iMX8 Mini Quad Cortex-A53
Operating system	Linux®
Memory	Standard: 2 GB LP DDR4 RAM / 16 GB eMMC Flash Premium: 4 GB LP DDR4 RAM / 16 GB eMMC Flash*
Cryptography	Transport Layer Security Ver 1.2, 1.3, FIPS 140-2 (TAA compliant SKUs)
RFID characteristics	
RFID engine	Zebra Proprietary Radio Technology
Maximum RFID read rate	1,300+ tags/sec
Maximum RFID read range – integrated antenna	55 ft. / 16.7 m
Maximum receiver sensitivity	-92 dBm
Air protocols	EPCglobal UHF Gen2 v2 / ISO 18000-63 RFID
Custom extensions	Impinj Gen2X: Protected Mode, Tag Focus, Tag Quieting, FastID, Radio Performance Features; NXP: ReadProtect, ResetReadProtect, ChangeEAS, EAS Alarm, ChangeConfig, BrandID

Wireless LAN*	
Radio	IEEE 802.11ax/ac/a/b/g/n 2X2, MU-MIMO, IPv4)
Data rate	5 GHz PHY data rates up to 1.2 Gbps; 2.4 GHz PHY data rates up to 458 Mbps
Operating channels	Channel 1–14: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 Channel 36–165: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144, 149, 153, 157, 161, 165 Channel bandwidth: 20, 40, 80 MHz
Security and encryption	WEP / TKIP / AES CCMP / AES GCMP / WAPI / AES CMAC / AES / CCMP
Wireless PAN*	
Bluetooth version	Class 1, Bluetooth v5.3 with BLE
Pairing options	SSP NFC Tag: Tap-to-Pair
User environment	
Operating temperature	-4°F to 131°F / -20°C to 55°C
Storage temperature	-40°F to 158°F / -40°C to 70°C
IP sealing	IP53
Vibration	MIL-STD-810 Method 514, Procedure I
Humidity	5–95% non-condensing
Altitude	MIL-STD-810 Method 500
Electrostatic discharge (ESD)	±15 kV air discharge ±8 kV contact discharge
Connectivity	
Power supply options	Zebra AC/DC Indoor Power Supply Power-over-Ethernet+ Injector (802.3at) Power-over-Ethernet Injector (802.3af)
Network connections	Gigabit Ethernet, WLAN, WPAN
Network services	DHCP, HTTPS, FTPS, SFPT, SSH, HTTP, FTP, SNMP, NTP
Network stack	IPv4 and IPv6
Communications	Micro HDMI compatible* 2 USB-C host, locking USB-C client
General purpose input/output (GPIO)	4 inputs / 4 outputs
GPIO output voltage and current limit	+24 VDC input: +24 VDC/1A output PoE+ (802.3at): 24 VDC/250 mA output PoE (802.3af): n/a

Markets and applications

Retail
- Inventory tracking
- Online fulfillment
- Point-of-sale (POS)
- Exit detection

Transportation and logistics
- Item tracking
- Inbound and outbound verification
- Dock door reading
- Sorting stations

Manufacturing
- Asset and tool tracking
- Compliance tracking
- Parts inventory
- Receiving
- Work-in-progress (WIP) tracking

Government
- Asset and evidence tracking
- Compliance tracking
- Supplies inventory
- Receiving

Regulatory compliance	
Safety	UL 62368-1, IEC 62368-1, EN 62368-1
RFI/EMI/EMC	FCC Part 15B, FCC Part 15C, FCC Part 15E, ICES-003 Class B, RSS210, RSS247, EN 208, EN 300 328, EN 300 440, EN 301 893, EN 301 489-1/3/17, EN 55032 Class B, EN 55035
SAR/MPE	FCC 47CFR2: OET Bulletin 65, RS-102, EN 50364, EN 50566
Other	RoHS, WEEE
General certifications	TAA compliant (available in TAA SKUs only)
Surge (EN61000-4-5)	±1.5 kV
RFID characteristics	
Frequency range and maximum RF conducted output power — external antenna ports (all power options except PoE 802.3af)	US: 902–928 MHz; 0–33 dBm EU: 865–868 MHz; 0–32.2 dBm 916.3, 917.5, and 918.7 MHz; 0–33 dBm Japan: 916–921 MHz (w LBT); 0–30 dBm
Frequency range and maximum RF conducted output power — external antenna ports (PoE)	US: 902–928 MHz; 0–31.5 dBm EU: 865–868 MHz; 0–31.5 dBm 916.3, 917.5, and 918.7 MHz; 0–31.5 dBm Japan: 916–921 MHz (w LBT); 0–30 dBm
Frequency range and maximum RF conducted output power — integrated antenna (all power options apply)	US: 902–928 MHz; 0–30 dBm EU: 865–868 MHz; 0–28.9 dBm 916.3, 917.5, and 918.7 MHz; 0–31.1 dBm Japan: 916–921 MHz (w LBT); 0–30 dBm
Frequency range and RF system output — integrated antenna (all power options)	US: 902–928 MHz; 0–34.1 dBm (EIRP) EU: 865–868 MHz; 0–30 dBm (ERP) 916.3, 917.5, and 918.7 MHz; 0–33 dBm (ERP) Japan: 916–921 MHz (w LBT); 0–34.1 dBm (EIRP)
Antenna port configurations	4 external FAKRA antenna ports 8 external FAKRA antenna ports Dual-element near-field and far-field integrated antenna with 4 external FAKRA antenna ports
Integrated RFID antenna gain	NA: 900 MHz 4.1 dBi EU: 800 MHz 3.2 dBi
Integrated RFID antenna beamwidth	NA: 900 MHz 100° EU: 800 MHz 110°

* Premium model feature

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