FX7500 RFID Reader
FREQUENTLY ASKED QUESTIONS

Q. What is the FX7500?

A: The FX7500 is a business-class high performance UHF RFID reader and it enables enterprise customers to deploy cost-effective fully automated best-in-class EPC Gen2 RFID solutions. The FX7500 replaces the FX7400 reader.

Q: What are the top key features of the FX7500 RFID reader?

A: The FX7500 reader offers these exciting advances and features:

- Motorola–designed RFID radio platform delivers superior read performance with best-in-class sensitivity
- Self-optimizing innovative firmware feature that automatically adapts and configures to deliver the best, most reliable performance for different application environments.
- Enterprise grade security with IPv6, Transport Layer Security, and FIPS 140 support
- Flexible Linux architecture with highly integrated features like POE, Optically isolated high capacity GPIO, and USB host and client ports
- Ability to run applications in C and Java on the reader.
- Wi-Fi and Blue-tooth wireless communication support over USB host port with select adaptors
- Enterprise class Management and Monitoring.

Q. What is different about the FX7500 versus prior Motorola FX7400 RFID reader offering and competing products on the market?

A: The FX7500 is based on a Motorola-designed RFID radio platform that delivers superior read performance. Unlike many other readers built on less-versatile commodity radio chip-sets, the FX7500 radio technology is built from the ground up specifically for the real-world challenges we help our customers face every day. Apart from the innovative and highly integrated features, enhanced connectivity and security – which makes the FX7500 easy to use, deploy and manage, the flexible software radio platform of the FX7500 ensures ease of adaptability to industry standards and protects customer’s investment long term.

Q. Which verticals and applications can this solution be sold into?

A: The FX7500 can be used for a wide variety of indoor RFID applications in different verticals such as retail, healthcare, government, commercial services for asset management, item-level inventory, process improvements etc. For example, asset management a truly horizontal application can be used in data centers for tracking high valued IT assets; in healthcare for tracking medical equipment, supplies and staff; in government for document tracking and record keeping, in defense for tracking tools etc.

The FX7500 can be used by retailers in many ways – automated receiving, quicker replenishment, monitoring back room and sales floor inventory, monitoring fitting rooms and exit doors for loss prevention and quicker RFID POS check-out are some of the examples.

Q. What is the benefit of the FX7500 to consumers in retail stores?

A: The FX7500 can help retailers improve on-shelf availability, increase sales, cut labor costs, minimize shrink and improve customer service.
Q. What Services are available for the FX7500?
A: Motorola offers different levels of comprehensive service plans including advance replacement of devices requiring repairs, full access to technical support resources and free firmware releases and supporting documentation. And post deployment, Motorola’s Support Services ensures RFID solution up and running day in and day out, with service programs that include 24x7 on-site coverage and preventive maintenance visits.

Q: What are my options to power the FX7500 reader?
A: The FX7500 reader supports Power-Over-Ethernet, so it can be powered over POE, POE+ port or using an external power supply adaptor or power supply injector, listed below.

- External power supply part numbers
  - Universal Power Supply: 50-14000-260R
  - A Power Supply Injector may also be used to power the FX7500 reader. AP-PSBIAS-1P3-AFR is recommended.
  - AC Line Cord (US): 23844-00-00 to find line cords for other countries, please visit Solution Builder which is accessible through the [PartnerCentral Portal](#).

Q: Are the FX7500 accessories compatible with other fixed readers?
A: The FX7500 reader uses the same accessories as the FX7400 and FX9500 reader. The power supply, RF cables, antennas and brackets are all compatible.

Q: Is the FX7500 different in its appearance than the FX7400? What are some of the differences which help easily distinguish one from the other?
A: Yes, the FX7500 front cover has a different Motorola logo and LED markings that are embossed on the front cover of the housing. In addition, the FX7500 has an additional USB host port. These are some of the easiest ways to distinguish the FX7500 from the FX7400 reader.

Q: How do I demonstrate the FX7500 to customers?
A: The latest version of Motorola’s PowerSession II demo tool helps discover, configure and demonstrate many functions and features of the FX7500 reader including the ability to program or perform firmware updates on multiple readers at once. In addition, the FX7500 reader has a built in web-based GUI for configuring and displaying the tag reads. Motorola’s PowerSession software is an excellent tool for use for pre-testing.

The RFID PowerSession II and an updated Demo Application Software User’s Guide can be found on [Motorola’s Support Central](#) website.

Q: Which operating system is used on the FX7500?
A: Linux operating system
Q: Can I host applications on the reader? What tools are available?

A: Yes. Custom embedded applications written in C or Java can be hosted on the reader. An SDK and documentation are available to support embedded application development. A separate partition on the reader’s internal flash memory is reserved for customer applications and data storage.

Q: Where can I find more information on RFID API’s?

A: RFID3 APIs, which are part of the Motorola Enterprise Mobility Developer’s Kit (EMDK), can be used to develop host applications.

For EMDK in C, .NET and Java follow the link below-
http://support.symbol.com/support/product/FX7400.html

TRAINING

Q: Is there any training available for the FX7500?

A: Please visit Motorola’s Learning Management System (LMS) https://portal.motorolasolutions.com

Search term “RFID” to find available courseware:

- Product Overview for FX7500 (RF1002 OLT | 1 Hour)
- EEE1102 - TECHNICAL ENABLEMENT FOR RFID FX READERS