



# RFS7000

FIPS 140-2 and CC EAL4 high performance, high bandwidth wireless switch for large scale deployments



## FEATURES

### Centralized multicore/ multithreaded architecture

Security and high performance for bandwidth-heavy applications; a single point of management lowering the overall cost of network deployment and administration

### L2 and L3 roaming

Seamless roaming of mobile clients across even complex distributed networks

### Comprehensive layered security

Exceptional level of data and network protection without sacrificing fast roaming

### Clustering and load balancing

Ensures an "always-on" highly available network for superior performance; supports multiple levels of redundancy and failover capabilities

### Robust, scalable features for demanding enterprise networks

Designed for large scale, high bandwidth deployments, the RFS7000 Wireless Switch from Motorola provides robust, highly scalable support for seamless enterprise mobility. The RFS7000 meets all the security requirements of cryptographic modules, as required by FIP 140-2 and CC EAL4. Motorola's Wi-NG architecture, optimized for enterprise mobility and multimedia applications, simplifies network deployment and management, provides superior performance, security and scalability, and supports emerging RF technologies. Built on this platform, the RFS7000 enables campus-wide roaming across subnets, and offers powerful failover capabilities, exceptional quality of service (QoS) and increased voice capacity. Integrated security features include intrusion detection and protection, secure guest access and protection against denial of service attacks.

### Raising the bar on enterprise-class performance

Taking advantage of multicore/multithreaded architecture, the RFS7000 is intended for large scale, high bandwidth enterprise deployments. It is designed to handle from 8,000 to 96,000 mobile devices, up to 256 802.11 dual-radio a/b/g access ports, up to 3000 dual-radio a/b/g APs in a cluster. Failover capabilities and cluster management provide high availability.

### Converged RF management for cutting-edge enterprise mobility

In addition to providing enterprise-class performance, the RFS7000 is designed to support seamless mobile access to multiple RF networks.

Interfaces to locationing systems simplify asset tracking throughout your network, while Layer 3 roaming and external fixed/mobile convergence (FMC) solutions allow personnel to seamlessly roam from subnet to subnet, and from cellular to Wi-Fi networks. When used in concert with enterprise-class application-intensive Wi-Fi handheld devices, the RFS7000 enhances fast roaming capabilities.

The RFS7000 provides comprehensive network security features that maintain constant compliance of HIPAA and PCI standards, including integrated MAC-based authentication, intrusion detection, AAA/Radius server (for WPA2-CCMP termination on the box) and hotspot provisioning capabilities for secure guest access. The stateful packet inspection firewall offers protection against denial of service attacks while optimizing network traffic.

Motorola Enterprise Mobility Services offers the comprehensive support and technical expertise required to design, deploy and maintain successful mobility solutions. For more information, visit us on the web at [www.motorola.com/rfs7000](http://www.motorola.com/rfs7000) or access our global contact directory at: [www.motorola.com/enterprise/contactus](http://www.motorola.com/enterprise/contactus)

**SPECIFICATION SHEET**

RFS7000  
 FIPS 140-2 and CC EAL 4 high performance, high bandwidth wireless switch for large scale deployments

# RFS7000 Specifications

<b>Packet Forwarding</b>	
802.1D-1999 Ethernet bridging; 802.11-.802.3 bridging; 802.1Q VLAN tagging & trunking; proxy ARP; IP packet steering-redirection	
<b>Wireless Networking</b>	
Wireless LAN:	Supports 250 WLANs; multi-ESS/BSSID traffic segmentation; VLAN to ESSID mapping; Auto Assignment of VLANs (on RADIUS authentication); Power Save Protocol Polling; pre-emptive roaming; congestion control with Bandwidth Management; VLAN Pooling
Access ports:	Supports 1-256 "thin" access ports; automatic access port adoption with ACLs; access port load balancing; direct sequence access point-to-access port conversion
Layer 2 or Layer 3 deployment of Access Ports	
Layer 3 Mobility (Inter-Subnet Roaming)	
Supported access ports:	AP300 (802.11a/b/g); L2 and L3 deployments with static IP support
Radio frequency automatic channel select (ACS); transmit power control management: (TPC); country code-based RF configuration; 802.11b – 3 non-overlapping channels; 802.11a—11 non-overlapping channels; 802.11g – 3 non-overlapping channels (ready)	
<b>Network Security</b>	
Packet filtering/Access Control Lists (ACLs):	L2/3/4 stateful packet analysis; network address translation (NAT)
Authentication:	Access Control Lists (ACLs); 802.1x/EAP—transport layer security (TLS), tunneled transport layer security (TTLS), protected EAP (PEAP); Integrated AAA/RADIUS Server with native support for EAP-TTLS and EAP-PEAP (includes a built in user name/password database; supports LDAP)
Transport encryption:	WPA2-CCMP (AES)
IPSec VPN gateway :	Supports 3DES and AES encryption
Secure Guest Access (HotSpot Provisioning)	Local Web Based Authentication; URL Redirection for User Login; Customizable Login/Welcome Pages; Support for external Authentication/Billing Systems
RADIUS Support (Standard and Symbol Vendor Specific Attributes):	<ul style="list-style-type: none"> <li>• User Based VLANs (Standard)</li> <li>• MAC Based Authentication (Standard)</li> <li>• User Based QoS (Motorola VSA)</li> <li>• Location Based Authentication (Motorola VSA)</li> <li>• Allowed ESSIDs (Motorola VSA)</li> </ul>

<b>Optimized Wireless QoS</b>	
RF priority:	802.11 traffic prioritization and precedence
Wi-Fi multimedia extensions:	WMM-power save with Admission Control
Classification and marking:	Layer 1-4 packet classification; 802.1p VLAN priority; DiffServ/TOS
<b>System Resiliency &amp; Redundancy</b>	
Active:Standby; Active:Active and 1:Many redundancy with access port and MU load balancing; self healing (on detection of RF interference or loss of RF coverage)	
<b>Management</b>	
Command line interface (serial and SSH); Secured Syslog over IPSec; text-based switch configuration files; DHCP (client/server/relay); multiple user roles (for switch access)	
<b>Physical Characteristics</b>	
Form factor:	1U Rack Mount
Dimensions:	HxWxD = 44.45mm x 440mm x 390.8mm
Weight:	13.5lbs / 6.12kg
Physical interfaces:	4 10/100/1000 Cu/SFP Ethernet interfaces, 1 10/100 OOB port, 1 serial port (RJ45 style)
MTBF:	>65,000 Hours
<b>Power Requirements</b>	
AC input voltage:	90 – 264 VAC 50/60Hz
Max AC input current:	6A@115 VAC, 3A@230 VAC
Input frequency:	47 Hz to 63 Hz
<b>User Environment</b>	
Operating temperature:	0C to 40C
Storage temperature:	-40C to 70C
Operating humidity:	5% to 85% (w/o condensation)
Storage humidity:	5% to 85% (w/o condensation)
<b>Regulatory</b>	
Product Safety:	UL / cUL 60950-1, IEC / EN60950-1
EMC Compliance:	FCC (USA), Industry Canada, CE (Europe), VCCI (Japan), C-Tick (Australia/New Zealand)



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The RFS7000 is currently in-process for FIP 140-2 and CC EAL 4.

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