RFS7000-GR

FIPS 140-2 Level 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-GR Wireless Switch from Motorola provides robust, highly scalable support for seamless enterprise mobility. The RFS7000-GR meets all the security requirements of cryptographic modules, as required by FIPS 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-GR 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-GR 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.

Pervasive Security and Enterprise Mobility

The RFS7000-GR provides comprehensive network security features including integrated MAC-based authentication, intrusion detection and hotspot provisioning capabilities for secure guest access. The stateful packet inspection firewall offers protection against denial of service attacks while optimizing network traffic.

With a built in Radius server the RFS7000-GR offers a single-box FIPS solution for wireless deployments. The RFS7000-GR also provides a secure connection to external RADIUS servers by using IPsec as recommended by RFC 3579.

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/rfs7000gr or access our global contact directory at: www.motorola.com/enterprise/contactus

RFS7000-GR Specifications

Packet Forwarding

802.1D-1999 Ethernet bridging; 802.11-.802.3 bridging; 802.1Q VLAN tagging & trunking; proxy ARP; IP packet steering-redirection

Wireless Networking

Wireless LAN:	Supports 256, 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

Network Security

Packet filtering/Access Control Lists (ACLs):	LL2/3/4 packet analysis; Layer 3 Stateful Firewall; network address translation (NAT)
Authentication:	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; Support for external Authentication/Billing Systems
RADIUS Support (Standard and Symbol Vendor Specific Attributes):	• User Based VLANs (Standard) • MAC Based Authentication (Standard) • User Based QoS (Motorola VSA) • Location Based Authentication (Motorola VSA) • Allowed ESSIDs (Motorola VSA)

Optimized Wireless QoS

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

System Resiliency & Redundancy

Active:Standby; Active:Active and 1:Many redundancy with access port and MU load balancing and Smart license sharing; self healing (on detection of RF interference or loss of RF coverage)

Management

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)

Physical Characteristics

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

Power Requirements

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

User Environment

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)

Regulatory

Product Safety:	UL / cUL 60950-1, IEC / EN60950-1
EMC Compliance:	FCC (USA), Industry Canada, CE (Europe), VCCI (Japan), C-Tick (Australia/New Zealand)

Part Numbers

RFS-7010-100R0-GR:	Zero Port Wireless Switch - FIPS and CC
RFS-7010-10010-GR:	128 Port Wireless Switch - FIPS and CC
RFS-7010-10020-GR:	256 Port Wireless Switch - FIPS and CC
RFS-7010-UC-16-WW:	16 Port Upgrade License Certificate

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