

# ExtremeWireless™ WiNG RFS 4000

Wireless Controller Appliance

## INNOVATIVE FEATURES

### A CONVERGED PLATFORM OF FEATURES AND FUNCTIONALITY

The RFS 4000 is a fully integrated wireless controller appliance, wired switch with 5 POE ports rolled into one, with IPSEC VPN/firewall/WIPS security, RADIUS & DHCP server, 3G failover, and more.

### WiNG ARCHITECTURE

Improve business process flow with one platform for wireless voice, video, data and multiple RF technologies — Wi-Fi and 4G technologies in the future; rich enterprise-class functionality includes seamless roaming across L2/L3 deployments, resilient failover capabilities, comprehensive security, toll-quality voice and other value-added services.

### GUEST ACCESS (HOTSPOT)

Provides guest access for wired\* and wireless clients. built-in captive portal, customizable login/ welcome pages, URL redirection for user login, usage-based charging, dynamic VLAN assignment of clients, DNS white list, GRE tunneling of traffic to central site\*, API support for interoperability with custom web portals\*



## Product Overview

### TRUE CONVERGENCE OF WIRED AND WIRELESS SERVICES FOR BRANCH FACILITIES

The RFS 4000 wireless services controller integrates wired, wireless and security networking features into a compact and easy-to-use form factor, enabling organizations to create survivable branch networks using a single platform. In addition, the RFS 4000 offers built in applications such as IPsec VPN, Firewall, RADIUS & DHCP provide all the necessary services for a branch facility.

### ALWAYS ON SECURE NETWORKING

The RFS 4000 offers multiple features that ensure reliability and survivability of branch networking services in virtually any situation. The RFS 4000 protects against access point and mesh node failure with SMART RF, a feature that keeps users on-Net with automatic optimization and healing. WiNG clustering mechanism protects against wireless switch failure and offers Active/Active or Active/Standby controller redundancy options. In the event of a WAN outage, a 3G ExpressCard guarantees Internet services by providing WAN backhaul options.

Finally, the RFS 4000 Series displays true convergence by securing both the wireless and wired network with its Integrated Stateful L2-7 Wired/Wireless Firewall, Integrated IDS/IPS engine for Rogue Detection and Containment, Anomaly Analysis engine, DoS Attack protection and Ad-Hoc Network Detection.

### EXTREMELY SIMPLE TO DEPLOY AND MANAGE — NO LOCAL IT SUPPORT REQUIRED

Multiple features combine to eliminate the need for onsite IT support for deployment and day-to-day management, including: built-in intelligence that allows the network to identify and automatically address network issues; zero touch installation; and the integration of all wired and wireless networking infrastructure into a single device that is easily managed back in the NOC via auto-discovery and auto-configuration.

## INNOVATIVE FEATURES (CONT.)

### 3G CONNECTIVITY FOR FAILOVER OR RAPID DEPLOYMENT

Support for 3G wireless WAN backhaul with various off the shelf 3G PCI Express cards traffic when the primary WAN Link fails

### ENHANCED END-TO-END QUALITY OF SERVICE (QoS)

Enhances voice and video capabilities; prioritizes network traffic to minimize latency and provide optimal quality of experience over the wire and over the air; SIP Call Admission Control and Wi-Fi Multimedia Extensions (WMM-Power Save) with Admission Control enhances multimedia application support and improves battery life and capacity

### RFS 4000 PART NUMBERS

**RFS4010-00010-WR:** 6 Port RFS 4000 Integrated Services Controller

**RFS-4010-MTKTIU-WR:** 1 RU Mounting Kit

**RFS-4000-6ADP-LIC:** 6 AP adoption license

**RFS-4000-12ADP-LIC:** 12 AP adoption license

**RFS-4000-24ADP-LIC:** 24 AP adoption license

**RFS-4000-48ADP-LIC:** 48 AP adoption license

## ADVANCED SERVICES FOR THE SMART BRANCH

The RFS 4000 not only offers wired and wireless networking and security services, but also value-added and productivity applications. An integrated customizable Guest Access application with distributed or centralized authentication enables a branch network to offer hotspot services for guests. The rich feature set provides granular control over the many wireless networking functions required to deliver high performance, persistent, clear connections with toll-quality voice. Quality of Service (QoS) ensures superior performance for voice and video services. WMM Admission Control, including TSPEC, SIP Call Admission Control, and 802.11k radio resource management, ensures dedicated bandwidth for voice calls as well as better control over active voice calls for a variety of VoIP handsets.

## END-TO-END SUPPORT

As an industry leader in mobility, Extreme offers the experience gained from deploying mobility solutions all over the globe in many of the world's largest enterprises. Leverage this expertise through Extreme Enterprise Mobility Services, which provides the comprehensive support programs you need to deploy and maintain your RFS 4000 at peak performance. Extreme recommends protecting your investment with Service from the Start Advance Exchange Support, a multi-year program that provides the next-business-day device replacement, technical software support and software downloads you need to keep your business running smoothly and productively. This service also includes Comprehensive Coverage, which covers normal wear and tear, as well as internal and external components damaged through accidental breakage — significantly reducing your unforeseen repair expenses.

The RFS 4000 enables distributed enterprises to provide any size branch office with high performance, comprehensive, cost-effective and secure wireless and wired networking services.

For more information about the RFS 4000, please visit [www.extremenetworks.com](http://www.extremenetworks.com).

## Performance and Capacity

| PRODUCT FEATURES                |  |
|---------------------------------|--|
| <b>SUPPORTS</b>                 |  |
| 144 Access Points               |  |
| 144 RF Domains                  |  |
| 24 Wireless LANS                |  |
| <b>PHYSICAL CHARACTERISTICS</b> |  |
| Form Factor                     | <ul style="list-style-type: none"> <li>1U Rack Mount Tray available</li> </ul>   |
| Dimensions                      | <ul style="list-style-type: none"> <li>1.75 in. H x 12 in. W x 10 in. D</li> <li>44.45 mm H x 304.8 mm W x 254.0 mm D</li> </ul>   |
| Weight                          | <ul style="list-style-type: none"> <li>RFS 4010: 4.75 lbs./2.15 kg</li> <li>Antenna facade: 1.45lb</li> </ul>  |
| Physical Interfaces             | <ul style="list-style-type: none"> <li>1x Uplink Port -10/100/1000 Cu/Gigabit SFP interface</li> <li>5x 10/100/1000 Cu Ethernet Ports, 802.3af and, 802.3at Draft</li> <li>1x USB 2.0 Host</li> <li>1x ExpressCard™ Slot</li> <li>1x Serial Port (RJ45 style)</li> </ul> |
| MTBF                            | >65,000 Hours  |
| <b>USER ENVIRONMENT</b>         |  |
| Operating Temperature           | 32° F to 104° F /0° C to 40° C   |
| Storage Temperature             | -40° F to 158° F/-40° C to 70° C   |
| Operating Humidity              | 5% to 85% (w/o condensation)   |
| Storage Humidity                | 5% to 85% (w/o condensation)   |
| Heat Dissipation                | 95 BTU/hr  |
| Max Operating Altitude          | 3000m  |
| <b>MANAGEMENT</b>               |  |
| AC input voltage                | 100-240 VAC 50/60Hz  |
| Operating Voltage               | 44 to 57 VDC   |
| Operating Current               | 2.5A(max) @48 VDC or 2.2A(max) @ 54 VDC  |
| Max Power Consumption           | 120W   |



The Wi-Fi CERTIFIED™ Logo is a certification mark of Wi-Fi Alliance®.



<http://www.extremenetworks.com/contact> / Phone +1-408-579-2800

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