RFS 4000 SERIES

802.11N INTEGRATED SERVICES CONTROLLER

TRUE CONVERGENCE OF WIRED AND WIRELESS SERVICES FOR BRANCH FACILITIES

The Zebra RFS 4000 802.11n 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. The RFS 4000 is also available with an integrated dual radio dual band 802.11n access point** that features extensive coverage and performance — meeting all the needs of SME/SMB. Supports 3X3 MIMO with conducted transmit power of 27.7dBm and superior receive sensitivity- provides best in class range, coverage and application performance. In addition, the RFS 4000 Series offers built in applications such as Locationing for Wi-Fi and RFID* as well as Hotspot and VoWLAN/Video Services.

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. Zebra's patent pending 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. With the Integrated Dual Radio Dual band form factor, the RFS 4000 is the only Services Controller in the Industry that offers concurrent access in the 2.4 and 5 GHz bands, with mesh capabilities in a multi-cell environment. Also, as a hallmark of Zebra Enterprise WLAN and Security Solutions, one the of radios in the RFS 4000 can be utilized to provide 24x7x365 IDS/IPS, Spectrum Analysis and Advanced Troubleshooting capabilities — while the other radio can provide concurrent access to wireless users.

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.

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 Secure Guest Access application with distributed or centralized authentication enables a branch network to offer hotspot services for guests. A real-time locationing system for Wi-Fi and RFID alike allows centralized asset tracking and monitoring*. Storage via USB allows the RFS 4000 to be used for software image distribution for wireless clients in a branch network. Support for VoWLAN provides cost-effective voice services throughout the wireless enterprise, enabling push-to-talk and more for employees inside the four walls as well as outside. 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



FEATURES

A converged platform of features & functionality

The RFS 4000 is a fully integrated 802.11n wireless services controller, 802.11n access point, wired switch with 5 POE ports rolled into one, with IPSEC VPN/ firewall/WIPS security, RADIUS & DHCP server, location & RFID engines*, 3G failover, and more

WiNG Architecture

Improve business process flow with one platform for wireless voice, video, data and multiple RF technologies - such as RFID*, Wi-Fi (including 802.11n) 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. Learn more at zebra.com/wing5.

Wireless Intrusion Detection/Protection System

The integrated IDS/IPS provides defense against over-the-air attacks by leveraging the dual-band sensing capabilities of the 802.11n APs. An Advanced WIPS modules provides further protection for the wireless network with wired side detection and containment of rogue APs over the air.**

Secure Guest Access (Hotspot)

Provides secure guest access for wired* and

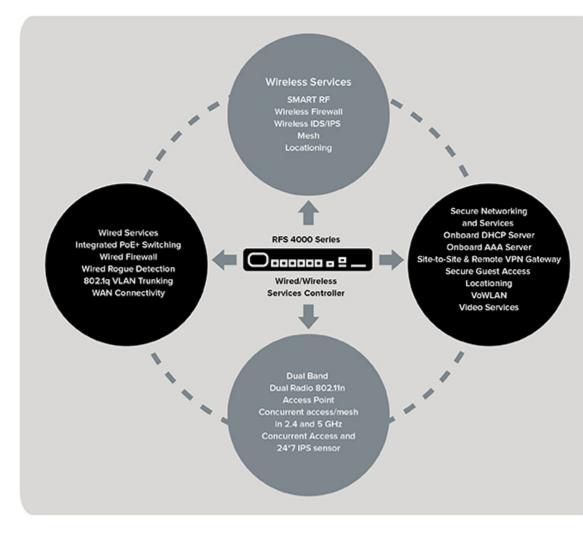
superior performance for voice and video services. WMM Admission Control, including TSPEC, SIP Call Admission Control, and 802.11k radio resource management, ensures dedicated bandwidth for voice calls as well as better control over active voice calls for a variety of VoIP handsets.

END-TO-END SUPPORT

As an industry leader in mobility, Zebra offers the experience gained from deploying mobility solutions all over the globe in many of the world's largest enterprises. Leverage this expertise through Zebra Enterprise Mobility Services, which provides the comprehensive support programs you need to deploy and maintain your RFS 4000 at peak performance. Zebra 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.

For more information, visit us on the web at <u>www.zebra.com/rfs4000</u> or access our global contact directory at <u>www.zebra.com/contact</u>

RFS 4000 Series: True wired/wireless convergence for a smart branch network



RFS 4000 network architecture — enabling branch mobility

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*

Real Time Locationing System (RTLS) *

Provides rich locationing services to enable real-time enterprise asset-tracking through support for 802.11, RFID and third party locationing solutions including industry leaders AeroScout, Ekahau, and Newbury Networks. Standards-based support for: EPC Global ALE interface for processing and filtering data from all active and passive tags; and EPC Global LLRP interface for passive RFID tag support

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-MTKT1U-WR: I RU Mounting Kit



RFS-4011-MTKT2U-WR: 2 RU Mounting Kit

RFS-4011-11110-US: RFS 4000 Services Controller with Integrated Dual Radio Access Point for US RFS-4011-11110-WR: RFS 4000 Services Controller with Integrated Dual Radio Access Point for Worldwide (excluding US) COLOR. 4011 available only with IG 5. 2452-PTA4M3X3-1: MIMO Facade Antenna he RFS 4011 迹. ZEBRA

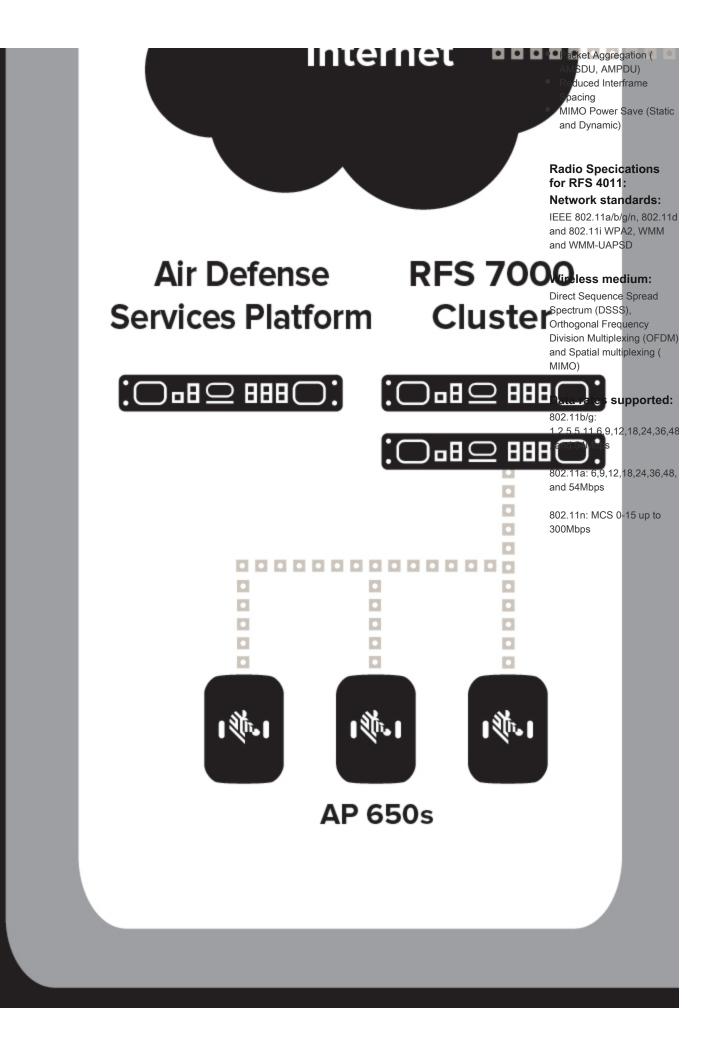
Headquarters/NOC

RFS-4000-6ADP-LIC**: 6 Adaptive Licenses for RFS4000

RFS-4000-ADWIP-LIC**: Advanced Wireless Intrusion Protection License for RFS4000

RFS 4011 802.11n MIMO Capabilities:

 3X3 MIMO with 2 Spatial Streams
 20 MHz and 40 MHz
 Channels
 300 Mbps Data Rates per



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.

RFS 4000 SPECIFICATIONS

PACKET FORWARDING

packet steering-redirection

802.1D-1999 Ethernet bridging; 802.11-.802.3 bridging; 802.1Q VLAN tagging and trunking; proxy ARP; IP

NETWORK SECURITY

Role-based wired/wireless firewall (L2-L7) with stateful inspection for wired and wireless traffic; Active firewall sessions — 50,000 per RFS 4000 Integrated Services Controller; protects against IP Spoofing and ARP Cache Poisoning

Adaptive APSupports adoption of 6 adaptive AP 51X1 802.11a/b/g/n access points in adaptive APRogue AP Containme Rogue Detection, Ad Detection, Ad Detection, Ad Detection, Ad Detection, Ad Detection, Ad Detection, Ad Indexemptive excessive probes; ex excessive probes; ex disassociation/deauth congestion control per WLAN; per user based on user count or bandwidth provisioning via AAA serverRogue AP Containme Rogue Detection, Ad Detection, Ad Detection, Ad admention of the composition excessive probes; ex excessive decryption excessive aduption of access pointsLayer 2 or Layer 3 deployment of access points Layer 3 Mobility (Inter-Subnet Roaming)CCMP replay); Supports 6 802.11a/b/g AP 300 thin access points for L2 or L3 deployment per; 61'38** AP 650s per controller **; Legacy support*; AP 100 for L2 deployments onlyGeofencingAd location of users parameter that define control to the network adoption of 6 adaptive AP 51X1 802.11a/b/g and 36** 802.11a/b/g/n access points in adaptive mode per RFS 4000 Integrated Services Controller; multiple country configuration support; Legacy support*; AP 4131 Access Point onlyMIPS sensor conversionSupported on all dep control to the network ACC = Dest MAC; II sizes; Source MAC is sizes; Source MAC is <			- Poisoning			
BSSID traffic segmentation: VLAN Wireless IDS/IPS Multi-mode rogue AP Rogue AP Containme Rogue AP Containme Rogue AP Containme authentication): power save protocol polling; pre-emptive Protocol polling; pre-emptive roaming: VLAN Pooling and dynamic VLAN adjustment; IGMP Detection, Ad Snooping Congestion control per WLAN; per disassociation/deauth management user based on user count or bandwidth provisioning via AAA server excessive adult. scessive adult. Layer 2 or Layer 3 deployment of access points CCMP replay); Susports 6 802.11a/b/g AP 300 Susports 6 802.11a/b/g AP 300 Thin Access Ports Supports 6 802.11a/b/g AP 300 Geofencing Add location of users Adaptive AP Supports adoption of 6 adaptive AP 100 for L2 deployments only Supported on all deplication deper RFS 4000 Integrated Services Controller; multiple country configuration support; Legacy Supported on all deplicates spoints support: AP 4131 Access Points conversion for L2 deployments Authentication Access Control Lists Points Authentication Access Control Lists pre-shared key (PS) EAAL TIME LOCATIONING SYSTEM (WIRELESS NET WORKING		Access Control	L2/L3/L4 ACLs		
Bandwidth management Congestion control per WLAN; per user based on user count or bandwidth utilization; bandwidth provisioning via AAA server disassociation/deautf excessive adthetical excessive adth	Wireless LAN	BSSID traffic segmentation; VLAN to ESSID mapping; auto assignment of VLANs (on RADIUS authentication); power save protocol polling; pre-emptive roaming; VLAN Pooling and dynamic VLAN adjustment; IGMP		Multi-mode rogue AP detection, Rogue AP Containment, 802.11n Rogue Detection, Ad-Hoc Network Detection, Denial of Service protection against wireless attacks, client blacklisting, excessive authentication/association; excessive probes; excessive disassociation/deauthentication; excessive decryption errors; excessive authentication failures; excessive 802.11 replay;		
Layer 2 or Layer 3 deployment of access points CCMP replay); Layer 3 Mobility (Inter-Subnet Roaming) Suspicious AP, Authorized SSII IPv6 client support Supports 6 802.11a/b/g AP 300 Thin Access Ports Supports 6 802.11a/b/g AP 650s per controller **; Legacy support*: AP 100 for L2 deployments only Adaptive AP Supports adoption of 6 adaptive AP 51X1 802.11a/b/g and 36** 802.11a/b/g and 36** 802.11a/b/g/n access points in adaptive mode per RFS 4000 Integrated Services Controller; multiple country multiple country configuration support; Legacy support*: AP 4131 Access Point Source Media Access only Authentication REAL TIME LOCATIONING SYSTEM (Authentication RTLS)* Exabau Aeroscout Gen 2 Tars		user based on user count or bandwidth	-			
Layer 3 Mobility (Inter-Subnet Roaming) Suspicious AP, Authorized SSII IPv6 client support Supports 6 802.11a/b/g AP 300 in ad-hoc mode, unau Thin Access Ports Supports 6 802.11a/b/g AP 300 Fake AP Flood, ID the advertising Authorized SSII Adaptive AP Supports adoption of 6 adaptive AP 100 for L2 deployments only Adaptive AP Supports adoption of 6 adaptive WIPS sensor AP 51X1 802.11a/b/g/n access points in adaptive mode per RFS 4000 Independent/ Adaptiv Integrated Services Controller; multiple country conversion for L2 deployments Source Media Access multiple country conversion for L2 deployments only Authentication REAL TIME LOCATIONING SYSTEM (Authentication RTLS)* Explanut Aeroscout Gen 2 Tars	Layer 2 or Layer 3 de	ployment of access points	-	excessive crypto IV failures (TKIP/ CCMP replay); Suspicious AP, Authorized device in ad-hoc mode, unauthorized AP using authorized SSID, EAP Flood,		
IPv6 client support using authorized SSII Thin Access Ports Supports 6 802.11a/b/g AP 300 thin access points for L2 or L3 deployment per; 6*/ 36** AP 650s per controller **; Legacy support*: AP100 for L2 deployments only Geofencing Add location of users parameter that define control to the network Adaptive AP Supports adoption of 6 adaptive AP 51X1 802.11a/b/g and 36** 802.11a/b/g/n access points in adaptive mode per RFS 4000 Integrated Services Controller; multiple country configuration support; Legacy support*: AP 4131 Access Point conversion for L2 deployments only WIPS sensor conversion Supported on all deprive conversion REAL TIME LOCATIONING SYSTEM (RTLS)* Authentication Access Control Lists pre-shared keys (PSF EAP—t ransport laye security (TTLS), prote PEAP); Kerberos Integrated A Kerberos Integrated A Exabau Aeroscout Gen 2 Tags	Layer 3 Mobility (Inte	r-Subnet Roaming)				
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Adaptive AP Supports adoption of 6 adaptive AP 51X1 802.11a/b/g and 36** 802.11a/b/g/n access points in adaptive mode per RFS 4000 Integrated Services Controller; multiple country configuration support; AP 4131 Access Point conversion for L2 deployments only WIPS sensor conversion Supported on all dep Independent/ Adaptiv Points REAL TIME LOCATIONING SYSTEM (RTLS)* Authentication Access Control Lists pre-shared keys (PSH EAPt ransport laye TLS), tunneled transp security (TTLS), prote PEAP); Kerberos Integrated Access (PEAP); Kerberos Integrated Access (PEAP);	Thin Access Ports	thin access points for L2 or L3 deployment per; 6*/ 36** AP 650s per controller **; Legacy support*:		Fake AP Flood, ID theft, ad-hoc advertising Authorized SSID		
AP 51X1 802.11a/b/g and 36** 802.11a/b/g/n access points in adaptive mode per RFS 4000 Integrated Services Controller; multiple country configuration support; Legacy support*: AP 4131 Access Point conversion for L2 deployments only REAL TIME LOCATIONING SYSTEM (RTLS)* RSSI based triangulation for Wi-Fi assets RSSI based triangulation for Wi-Fi assets Tags supported AP 51X1 802.11a/b/g and 36** 802.11a/b/g and 36** 802.1			Geofencing	Add location of users as a parameter that defines access control to the network		
Integrated Services Controller; multiple country configuration support; Legacy support*: AP 4131 Access Point conversion for L2 deployments only Anomaly Analysis Source Media Access MAC) = Dest MAC; II sizes; Source MAC is TKIP countermeasure addresses REAL TIME LOCATIONING SYSTEM (RTLS)* Authentication Access Control Lists pre-shared keys (PSF EAP—t ransport laye TLS), tunneled transport security (TTLS), prote PEAP); Kerberos Integrated Access	Adaptive AP	AP 51X1 802.11a/b/g and 36** 802.11a/b/g/n access points in adaptive mode per RFS 4000 Integrated Services Controller; multiple country configuration support; Legacy support*: AP 4131 Access Point conversion for L2 deployments		Supported on all dependent and Independent/ Adaptive Access Points		
REAL TIME LOCATIONING SYSTEM (RTLS)* Authentication Access Control Lists pre-shared keys (PSF EAP—t ransport laye TLS), tunneled transport laye security (TTLS), prote PEAP); Kerberos Integrated A			Anomaly Analysis	Source Media Access Control (MAC) = Dest MAC; Illegal frame sizes; Source MAC is multicast; TKIP countermeasures; all zero addresses		
REAL TIME LOCATIONING STSTEM (TLS), tunneled transport RTLS)* security (TTLS), protection RSSI based triangulation for Wi-Fi assets PEAP); Tags supported Ekabau Aeroscout Gen 2 Tags			Authentication	Access Control Lists (ACLS); pre-shared keys (PSK); 802.1x/		
RSSI based triangulation for Wi-Fi assets PEAP); Tags supported Ekabau Aeroscout Gen 2 Tags	RTLS)*		-	EAP—t ransport layer security (TLS), tunneled transport layer security (TTLS), protected EAP (
Tags supported Ekabau Aeroscout Gen 2 Tags			_	PEAP);		
	Tags supported	Ekahau, Aeroscout, Gen 2 Tags		Kerberos Integrated AAA/RADIUS Server with native support for		

QUALITY OF SERVICE		_	built in user name/password	
Wi-Fi Multimedia extensions	WMM-power save with TSPEC Admission Control;		database; supports LDAP), and EAP-SIM	
	WMM U-APSD	Transport encryption	WEP 40/128 (RC4), KeyGuard, WPA—TKIP, WPA2-CCMP (AES)	
IGMP snooping	Optimizes network performance by preventing flooding of the		WPA2-TKIP	
SIP Call Admission Control	broadcast domain Controls the number of active SIP sessions initiated by a wireless	802.11w* Provides origin authentication integrity, confidentiality and protection of management f for Zebra's AP 300 access (
802.11k	VoIP phone Provides radio resource management to improve client throughput (11k client required)	 IPSec VPN gateway Supports DES, 3DES and At 128 and AES-256 encryption site-to-site and client-to-site VPN capabilities 		
Classification and marking	Layer 1-4 packet classification; 802.1p VLAN priority; DiffServ/TOS	Secure guest access Provides secure guest access (Hotspot wired and wireless client provisioning) captive portal, customiza welcome pages, URL red welcome pages, URL red		
PHYSICAL CHA	RACTERISTICS	-	for user login, usagebased charging, dynamic VLAN assignment of clients, DNS white list, GRE tunneling of traffic to central site*, API support for interoperabilty with custom web portals* support for external authentication and billing systems	
Form factor	1U Rack Mount Tray available for the RFS4010 2U Rack Mount Tray available for the RFS4011	-		
Dimensions	RFS 4010: 1.75 in. H x 12 in. W x 10 in. D			
	44.45 mm H x 304.8 mm W x 254.0 mm D Antenna facade: 289.2mm x 340mm x 20.5mm	Wireless RADIUS Support (Standard and Zebra Vendor Specific Attributes)	User Based VLANs (Standard) MAC Based Authentication (Standard) User Based QoS (Zebra VSA)	
Weight	RFS 4010: 4.75 lbs./2.15 kg RFS 4011: 4.9lbs Antenna facade: 1.45lb	Location Based Authenticati Zebra VSA) Allowed ESSIDs (Zebra VSA		
Physical interfaces	1x Uplink Port -10/100/1000 Cu/ Gigabit SFP interface	SYSTEM EXTENSIBILITY ExpressCard [™] Slot: Driver support for 3G wireless cards for WAN backhaul • AT&T (NALA) – HYPERLINK " http:// www.wireless.att.com/businesscenter/ sierra-wireless-aircard-890/index.jsp?skuld= sku9557600025"% Sierra Wireless AirCard® 890,		
	5x 10/100/1000 Cu Ethernet Ports, 802.3af and			
	802.3at Draft 1x USB 2.0 Host 1x ExpressCard™ Slot 1x Serial Port (RJ45 style)			
Antenna Connections	RFS 4011: RP-SMA			
MTBF	>65,000 Hours			
RECOMMENDED ENTERPRISE MOBILITY SERVICES		 card Rogers Wireless (Canada) – Sierra Wireless AirCard® 503 		
Customer Services	Service from the Start Advance Exchange Support	 Vodaphone (EMEA) – Novatel Merlin XU870 Vodaphone (EMEA) – Vodaphone E3730 3G Expresscard Telstra (Australia) – Sierra Wireless AirCard® 503 		
USER ENVIRONMENT		 Telstra Turbo 7 series Expresscard (Aircard 880E) General Use – Novatel Merlin XU870, Option GE 0302, 		
Operating temperature	32° F to 104° F /0° C to 40° C	Sierra Wireless AirC	Card® 504	

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 for RFS 4010, 190 BTU/ hr for RFS 4011
Max Operating Altitude	3000m

Command line interface (serial, telnet, SSH); secure Web-based GUI (SSL) for the wireless switch and the cluster; SNMP v1/v2/v3; SNMP traps—40+ user configurable options; Syslog; Firmware, Config upgrade via TFTP, FTP & SFTP (clients); simple network time protocol (SNTP); text-based switch configuration files; DHCP (client/server/relay), switch auto-configuration and firmware updates with DHCP options; multiple user roles (for switch access); MIBs (MIB-II, Etherstats, wireless switch specific monitoring and configuration); Email notifications for critical alarms; MU naming capability

SYSTEM RESILIENCY AND REDUNDANCY

Active:Standby; Active:Active and N+1 redundancy with access port and Wireless Clients load balancing; Critical resource monitoring

Virtual IP*: Single virtual IP (per VLAN) for a switch/ contoller cluster to use as the default gateway by mobile devices or wired infrastructure. Seamless fail-over of associated services e.g. DHCP Server.

SMART RF: Network optimization to ensure user quality of experience at all times by dynamic adjustments to channel and power (on detection of RF interference or loss of RF coverage/neighbor recovery). Available for both thin APs and Adaptive APs.

Dual Firmware bank supports Image Failover capability

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)

Maximum available transmit power per chain on an RFS 4011: 23 dBm Maximum available transmit power per RFS 4011: 27.7 dBm

Receiver Sensitivity: Operating Band 2.4GHz			Receiver Sensitivity: Operating Band 5GHz			
		Typical Receive Sensitivity (dBm)			Typical Receive Sensitivity (dBm)	
Operating Modes	Data Rate	RFS 4011 Radios 1 and 2	Operating Modes	Data Rate	RFS 4011 Radios 1 and 2	
802.11b	1 Mb/s	-96	802.11a	6 Mb/s	-93	
	2 Mb/s	-94		9 Mb/s	-93	
	5.5 Mb /s	-93		12 Mb/ s	-93	
	11 Mb/ s	-90		18 Mb/ s	-92	
802.11g	6 Mb/s	-94		24 Mb/ s	-89	

POWER REQUIREMENTS

	I OWER REGOINEMENTO			
	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 for RFS 4010, 150W for RFS 4011		

	9 Mb/s	-94		Mb/ s	-86
	12 Mb/	-95		Mb/	-82
	S			S	
	18 Mb/ s	-94		Mb/ s	-80
	24 Mb/	-90		CS0	-93
	S	-30	HT20)		-93
	36 Mb/ s	-87	MC	CS1	-92
	48 Mb/ s	-83	МС	CS2	-90
	54 Mb/ s	-82	МС	CS3	-86
802.11n (HT20)	MCS0	-95	МС	CS4	-83
	MCS1	-93	МС	CS5	-79
	MCS2	-91	MC	CS6	-78
	MCS3	-87	MC	CS7	-76
	MCS4	-85	МС	CS8	-92
	MCS5	-81	МС	CS9	-90
	MCS6	-79	MC	S10	-87
	MCS7	-78	MC	S11	-84
	MCS8	-94	MC	S12	-81
	MCS9	-91	MC	S13	-77
	MCS10	-88	MC	S14	-75
	MCS11	-85	MC	S15	-73
	MCS12	-82	802.11n (MC HT40)	CS0	-90
	MCS13	-79	MC	CS1	-89
	MCS14	-77	MC	CS2	-86
	MCS15	-75	MC	CS3	-83
802.11n (HT40)	MCS0	-90	МС	CS4	-80
	MCS1	-89	MC	CS5	-76
	MCS2	-87	MC	CS6	-74
	MCS3	-84	MC	CS7	-73
	MCS4	-82	MC	CS8	-89
	MCS5	-78	MC	CS9	-86
	MCS6	-76	MC	S10	-84
	MCS7	-75	MC	:S11	-81
	MCS8	-87		S12	-78
	MCS9	-87		S13	-74
	MCS10	-85		S14	-72

MCS11	-83	MCS15	-71
MCS12	-80		
MCS13	-75		
MCS14	-74		
 MCS15	-72		







* Available in WING v4 only ** Available in WiNG v5 only

Available in wind v5 only

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R3-29-119



Integer Solutions GmbH Industriestraße 4 D-61200 Wölfersheim Tel. +49-06036-90 557 0 office@integer-solutions.com ZEBRA TECHNOLOGIES