



Ruckus Wireless™ ZoneSwitch™ 4000 Series

Enterprise-Class Power over Ethernet Gigabit LAN switch



Benefits

- Cost effective Layer 2 smart switch
- Flexible PoE options
- Guaranteed throughput for Ruckus ZoneFlex™ 802.11n Smart Wi-Fi® APs
- Seamless mobility
- Advanced QoS capabilities
- Standard security
- Fully manageable

The Ruckus Wireless ZoneSwitch 4000 series is a family of fully managed, Power over Ethernet (PoE), 24-port Gigabit Layer 2 LAN switches specifically designed for the packet processing needs of connecting ZoneFlex Smart Wi-Fi access points (APs) to the enterprise network infrastructure. The ZoneSwitch 4000 series features advanced scalability, wire-speed Layer 2 switching, mobility, quality of service (QoS), security, and ease of management.

The ZoneSwitch 4224 supports 24 Gigabit Ethernet ports of 802.3at PoE providing up to 30 W per port (375 W total budget). The ZoneSwitch 4124 supports 24 Gigabit Ethernet ports of 802.af PoE providing up to 15 W per port (180 W total budget). Of the 24 Gigabit LAN ports, four ports are dual personality supporting 1000 BASE-SX and LX Small Form-Factor Pluggable (SFP) fiber transceivers for easy and flexible uplinks.

Enterprises can easily and affordably build high-speed Ruckus ZoneFlex 802.11n wireless networks that deliver wire-like reliability and consistent performance at range, which drives the need for fully managed PoE Gigabit Layer 2 LAN Switches. The ZoneSwitch 4000 series are cost effective solutions ideal for enterprise deployment at the edge of the network.

The ZoneFlex Smart Wi-Fi 802.11n APs are purpose-built for hotels, schools and enterprises by enabling high-definition IPTV, video-on-demand and other video applications while supporting data applications for guests and employees.

The ZoneSwitch 4000 supports up to 256 VLANs and dynamic VLANs with GVRP for separating type of traffic for seamless mobility.

Built-in support for advanced QoS capabilities including 802.1p base priority, port based priority, DSCP (Diffserv), TOS (IP Precedence) and IGMP snooping provide real-time voice and video functions.

The ZoneSwitch 4000 easily integrates with existing 802.1X and RADIUS security and authentication infrastructure, and combines network management with SNMP, Telnet, and TACACS + within a low-cost solution.

Benefits

Cost effective Layer 2 smart switch

Supports up to 24 WLAN APs per switch, the ZoneSwitch can easily serve edge network deployments

Flexible PoE options

Provides 802.3at and 802.3af PoE options to power devices such as IP-based VoIP phones eliminating the need for more power cords that add cost to the installation

Guaranteed throughput for ZoneFlex™ 802.11n Smart Wi-Fi® APs

Non-blocking, wire-speed architecture maximizes data throughput from 802.11n wireless LANs to enterprise networks

Easy uplink deployment options

Four dual personality ports support 1000BASE-SX and LX Small Form-Factor Pluggable fiber transceivers for easy and flexible uplinks

Seamless mobility

Up to 256 VLANs and dynamic VLANs with GVRP support separating types of traffic for seamless user mobility

Advanced QoS capabilities

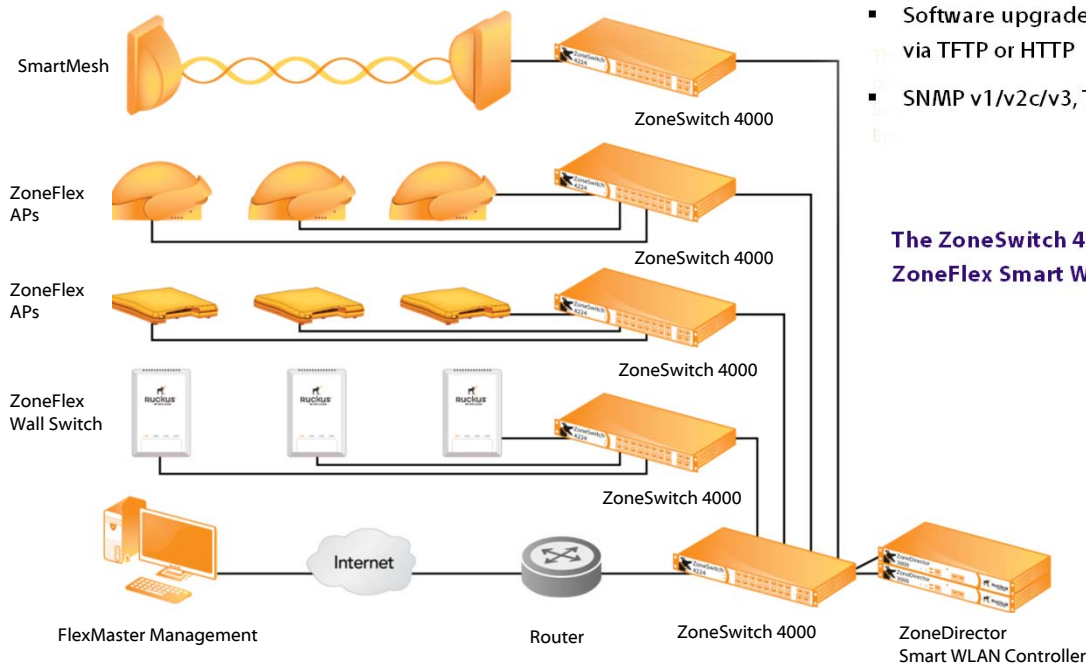
Supports 802.1p base priority, port based priority, DSCP (Diffserv), TOS (IP Precedence) and IGMP snooping for real-time voice and video functions

Standard security

Easy integration with existing 802.1X and RADIUS to secure ZoneSwitches

Fully manageable

Easily manage ZoneSwitches with SNMP, Telnet, and TACACS +



Hardware Features

- Thin 1U rack mountable footprint
- 24 Gigabit PoE ports supports 802.3af with 180 W PoE budget, or 802.3at with 375 W PoE budget
- 4 dual personality ports support 1000 BASE-SX and LX Small Form-Factor Pluggable (SFP) fiber transceivers for flexible uplinks
- Limited lifetime hardware warranty coverage

Software/Switching Features

- Full line rate, non-blocking Gigabit switching architecture
- Support for 256 VLANs per port, protocol based VLANs, and dynamic VLANs with GVRP
- Static trunk and 802.3ad LACP, jumbo frame support
- Broadcast storm control, 802.1d/w/s STP, RSTP and MSTP support
- Advanced QoS including L2 802.3 flow control, IGMP v1/v2 snooping, Layer 2 multicast forwarding and filtering, L3 DiffServ, 802.1p and DSCP/TOS based priority
- Security policies include 802.1X support for RADIUS and TACACS +, MAC based authentication, and L2/3/4 ACL filtering
- Web-based GUI supports HTTP and HTTPS/SSL connections, full CLI
- Software upgrade and configuration upload/download via TFTP or HTTP
- SNMP v1/v2c/v3, Telnet/SSHv2, TACACS +, and Syslog

The ZoneSwitch 4000 Series is designed to connect ZoneFlex Smart Wi-Fi APs to the Enterprise network.

Specifications

Differences between products are color coded.

	ZoneSwitch 4124	ZoneSwitch 4224
Physical Characteristics		
Power	Internal power adapter Input voltage: 100-240V AC, 50-60Hz Input current: 4A Max power rating including full PoE operations: 225 W PoE power budget: 180 W	Internal power adapter Input voltage: 100-240V AC, 50-60Hz Input current: 8A Max power rating including full PoE operations: 525 W PoE power budget: 375 W
Physical Size	440 cm(L), 257 cm(W), 44 cm(H) 173" L x 101" W x 17" H Mounts in an EIA-standard 19" (48 cm) rack	440 cm(L), 257 cm(W), 44 cm(H) 173" L x 101" W x 17" H Mounts in an EIA-standard 19" (48 cm) rack
Weight	3930 g (8.65 lbs)	4380 g (9.64 lbs)
Physical Ports	<ul style="list-style-type: none"> 20 auto-MDI/MDIX, auto sensing 10/100/1000 Mbps, RJ-45 Ethernet access ports 4 dual personality ports support auto-MDI/MDIX, auto sensing 10/100/1000 Mbps, RJ-45 Ethernet access ports, or SFP slots for 1000 BASE-SX/LX transceiver modules Ports 1-24 provide 802.3af Class 0/2 or 802.3at PoE power One DB-9 console port for local Management 	<ul style="list-style-type: none"> 20 auto-MDI/MDIX, auto sensing 10/100/1000 Mbps, RJ-45 Ethernet access ports 4 dual personality ports support auto-MDI/MDIX, auto sensing 10/100/1000 Mbps, RJ-45 Ethernet access ports, or SFP slots for 1000 BASE-SX/LX transceiver modules Ports 1-24 provide 802.3af Class 0/2 or 802.3at PoE power One DB-9 console port for local Management
LED Display	Power/status	Power/status
Environmental Conditions	Operating temperature: 32°F (0°C) to 113°F (45°C) Storage temperature: -20 to 70°C (-4°F to 158°F) Operating humidity: 10 - 90% non-condensing Storage humidity: 10 - 95% non-condensing	Operating temperature: 32°F (0°C) to 113°F (45°C) Storage temperature: -20 to 70°C (-4°F to 158°F) Operating humidity: 10 - 90% non-condensing Storage humidity: 10 - 95% non-condensing
Management		
Configuration and Operation	<ul style="list-style-type: none"> Web-based GUI interface supports HTTP and HTTPS/SSL connections, full CLI, Serial Console Port, Future FlexMaster Management SNMP v1/v2c/v3, Telnet/SSL/SSHv2, TACACS+, and Syslog Ping, SNTP, LLDP Port mirroring 	<ul style="list-style-type: none"> Web-based GUI interface supports HTTP and HTTPS/SSL connections, full CLI, Serial Console Port, Future FlexMaster Management SNMP v1/v2c/v3, Telnet/SSL/SSHv2, TACACS+, and Syslog Ping, SNTP, LLDP Port mirroring
Statistics	MIBII, BridgeMIB, EtherlikeMIB, P-BridgeMIB, Q-BridgeMIB, InterfaceMIB, RMON Group 1, 2, 3, 9	MIBII, BridgeMIB, EtherlikeMIB, P-BridgeMIB, Q-BridgeMIB, InterfaceMIB, RMON Group 1, 2, 3, 9
Software Updates	Software upgrade and configuration upload/download via TFTP or HTTP	Software upgrade and configuration upload/download via TFTP or HTTP
L2 Switching		
VLANs	<ul style="list-style-type: none"> 802.1Q VLAN (256) Port-based VLAN, protocol-based VLAN and GVRP Static trunk and 802.3ad LACP Jumbo frame support Broadcast storm control 802.1d/w/s STP, RSTP and MSTP support 	<ul style="list-style-type: none"> 802.1Q VLAN (256) Port-based VLAN, protocol-based VLAN and GVRP Static trunk and 802.3ad LACP Jumbo frame support Broadcast storm control 802.1d/w/s STP, RSTP and MSTP support
Security		
Authentication	802.1X support for RADIUS, TACACS+	802.1X support for RADIUS, TACACS+
Local Authentication	MAC based authentication	MAC based authentication
Filtering	L2/3/4 ACL	L2/3/4 ACL
Multimedia and Quality of Service		
L2	<ul style="list-style-type: none"> 802.3 flow control Layer 2 multicast forwarding and filtering Packet marking and remarking 	<ul style="list-style-type: none"> 802.3 flow control Layer 2 multicast forwarding and filtering Packet marking and remarking
L3	<ul style="list-style-type: none"> L3 DiffServ 802.1p based priority DSCP/TOS based priority IGMP v1/v2 snooping Traffic shaping and policing 	<ul style="list-style-type: none"> L3 DiffServ 802.1p based priority DSCP/TOS based priority IGMP v1/v2 snooping Traffic shaping and policing
Certifications		
Countries	U.S., EU, Canada, Australia, China, India, Indonesia, Malaysia, Philippines, Singapore, New Zealand	U.S., EU, Canada, Australia, China, India, Indonesia, Malaysia, Philippines, Singapore, New Zealand

Ruckus Wireless™ ZoneSwitch™ 4000 Series

Ordering Information

ARRIS #	Mfg #	Description
TBD	TBD	ZoneSwitch 4124 Switch 24 Port, 802.3af 180 W
TBD	TBD	ZoneSwitch 4224 Switch 24 Port, 802.3af 375 W
794015	SVC-CTRCT	1 Year Support Contract Required

Contact ARRIS: (888) 353-9473 www.arrisi.com

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