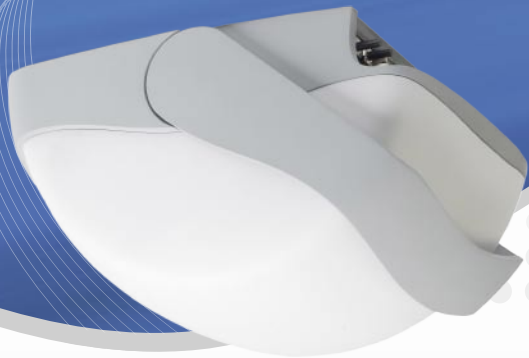


ZoneFlex™ 2942

Smart Wi-Fi 802.11g Multimedia Access Point



The First Centrally Managed, Multimedia W-Fi Solution for the Small Business and Hot Zone

The Ruckus ZoneFlex 2942 is the first centrally managed, multimedia 802.11g Wi-Fi access point that delivers industrial-strength features and functionality not available in any low-end consumer AP or high-end WLAN system.

Together with the Ruckus ZoneDirector central WLAN controller, Ruckus ZoneFlex APs plug-and-play with minimum operational overhead. Ideal for hotels, schools, airports and small-to-medium businesses (SMBs) with little or no IT staff and a limited budget, the Ruckus ZoneFlex 2942 is also perfect for hot spot operators that want to deliver business class hot spot services – such as voice over Wi-Fi, IP-based video or secure enterprise access.

The ZoneFlex 2942 implements Ruckus patented BeamFlex™ smart antenna technology that enables consistent, high performance, extended coverage and multimedia support as it automatically tunes itself to adapt to constant changes in the environment. This means fewer APs, more satisfied users, and a cost effective system that can be installed anywhere by non-wireless experts.

A Web-based wizard allows any computer user to configure ZoneFlex 2942s through the ZoneDirector – creating a secure and sophisticated WLAN in a matter of minutes. Ruckus ZoneFlex 2942s simply plug into any Ethernet network and automatically discover the ZoneDirector. No RF tuning. No client configuration. A true plug-and-play multimedia WLAN that is ready to use.

BENEFITS

No RF experts required

Smart antenna array eliminates AP placement issues and minimizes adjacent AP interference while ZoneDirector controls dynamic channel assignment and power management

Breakthrough user performance and density

Advanced antenna array and precision QoS software delivers 20 concurrent voice call, 50 simultaneous data users or 20 Mbps of sustained video quality throughput per access point

Extended coverage means fewer APs

Directional, high-gain antennas dynamically combined to give hotspot operators and SMBs two to four times the coverage over typical consumer and enterprise APs

Optimized for voice over Wi-Fi

Specialized antenna design, dynamic signal path selection and precision QoS software optimize delay-sensitive, high-density Vo-Fi applications. Power Save (UAPSD) maximizes handset battery life

Proven video streaming support

Ruckus smart antenna system and video QoS already proven for real time IP video streaming applications deployed by over 100 IPTV operators worldwide

“IT lite” configuration and management

Web-based wizard enables configuration of multiple APs across the entire WLAN in minutes. Once configured the WLAN manages itself

Enables business class hot spot services

New revenue opportunities for operators such as Voice-over-WLAN services, extended enterprise access, IP video applications and tiered service classes

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Introducing the Ruckus ZoneFlex 2942

The Ruckus ZoneFlex 2942 fills the gap between low end, feature-sparse consumer AP and expensive, complex enterprise-class WLANs. It is the first truly-affordable, centrally-managed 802.11g multimedia access point specifically designed for hot zone operators and SMBs. Working in concert with the ZoneDirector system, the Ruckus ZoneFlex 2942 delivers a complete, plug-and-play, secure and robust WLAN solution without the cost or complexity of high-end systems.

High performance and cost effective

The Ruckus ZoneFlex 2942 is built on patented BeamFlex Smart antenna technology that automatically adapts to the RF environment by steering Wi-Fi signals on the best path and rejecting interference in real time. Each Ruckus ZoneFlex 2942 comes equipped with a state-of-the-art, high-gain smart antenna array designed to deliver unsurpassed density and range. Supporting up to 50 simultaneous data users or 20 concurrent voice calls while its superior coverage reduces the number of APs required by a factor of two or more, the Ruckus ZoneFlex 2942 gives hot zone operators and SMBs the most cost-effective multimedia Wi-Fi solution.

IT "lite" deployment

The self-optimizing BeamFlex technology allows the Ruckus ZoneFlex 2942 to be installed without site survey and RF planning. Simply plug any Ruckus ZoneFlex 2942 into an Ethernet and it automatically discovers the Ruckus ZoneDirector and self-configures.

The Ruckus ZoneFlex 2942 and ZoneDirector system seamlessly integrate with existing security systems such as firewalls, intrusion detection system and authentication servers including RADIUS and ActiveDirectory. An internal authentication database allows SMBs to implement user authentication without the expenses and complexity associated with external authentication servers.

Minute configuration

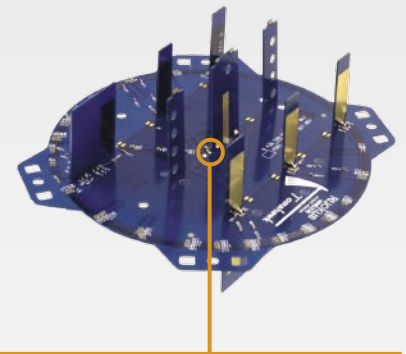
Ruckus ZoneFlex 2942 APs are automatically configured by the Ruckus ZoneDirector. A network of APs can be centrally configured in a matter of minutes through the ZoneDirector's web-based wizard.

Automatic user security

Used with the Ruckus ZoneDirector, the Ruckus ZoneFlex 2942 provides first-of-its-kind automatic, robust user security enforcement. Provisioning secure wireless access often involves configuring all the client devices with wireless setting such as an SSID and encryption key. Typically organizations use a single pre-shared key for all employees. This is a security problem and is an ongoing operational headache.



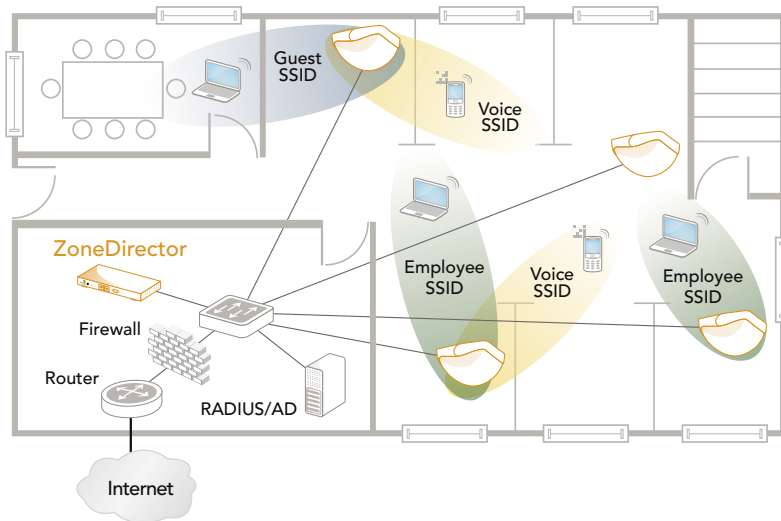
Centralized configuration and RF management of Zoneflex APs can be provided through the ZoneDirector 1000



A state-of-the-art smart antenna array integrates six high-gain vertically polarized and six horizontally polarized antenna elements. This enables up to 4096 potential antenna combinations and up to 7 dBi gain thereby delivering unprecedented range extension and Wi-Fi signal reliability. Expert control software selects the best antenna elements to use at any given moment for any given packet and any given client based on changing environmental conditions

Ruckus ZoneFlex 2942

Smart Wi-Fi 802.11G Multimedia Access Point



FEATURES

- Integrated smart antenna array with 4K unique patterns designed for triple-play services
- Automatic interference avoidance optimized for high density environment
- Two to four-times extended range/coverage
- 20 Mbps sustainable video throughput
- 4 queues per station
- 4 BSSIDs with unique QoS and security policies
- WEP, WPA-PSK, 802.1X
- Zero-IT and Dynamic PSK (with ZoneDirector)
- Admission control/load balancing (with ZoneDirector)
- Captive portal and guest accounts (with ZoneDirector)
- RADIUS and Active Directory support (with ZoneDirector)
- Advanced RF management (with ZoneDirector)
- Two 10/100 Mbps Ethernet ports allowing for daisy chaining of APs and connection of local devices
- Power over Ethernet for easy deployment
- Ceiling or wall mountable with Kensington lock option

Ruckus patent-pending Dynamic PSK on the Ruckus ZoneDirector and ZoneFlex 2942 automates this process to assure integrity of the user authentication system. First time users simply plug their computers into the LAN and specify a URL that directs them to a captive portal for a one-time authentication. Upon authentication, the ZoneDirector automatically configures the user's system with the designated SSID and a unique, dynamically generated encryption key. The key can be removed automatically upon expiration or manually when the user or the user's device is no longer trusted.

Differentiated services with multiple SSIDs

Multiple SSIDs can be configured within each Ruckus ZoneFlex 2942 with unique broadcast, QoS, security and management parameters assigned to each SSID. This enables a hot zone operator to easily offer tiered services to different user or traffic types. SMBs can utilize this facility to implement unique guest, contractor and employee access policies.

Dynamic RF management

A Ruckus ZoneFlex WLAN is inherently RF-coordinated as BeamFlex automatically steers Wi-Fi signals toward each receiver and away from noise in real time. And unlike omni antennas, BeamFlex does not constantly radiate in all directions, thereby minimizing the chances of adjacent AP interference. As a last resort, the Ruckus ZoneDirector can dynamically exert control over the RF channel assignment and transmit power level on the ZoneFlex APs to further optimize the RF environment without manual intervention.

Specifications

Physical Characteristics

Power	<ul style="list-style-type: none"> External power adapter Input: 110-240V AC Output: 12V DC, 1A Power over Ethernet
Physical Size	<ul style="list-style-type: none"> 19.43cm (L), 14.43cm (W), 10.16cm (H)
Weight	<ul style="list-style-type: none"> 550 grams
Antenna	<ul style="list-style-type: none"> Internal software-configurable antenna array with directional and omni high-gain elements that provide up to 4K unique antenna patterns External RP-SMA connector option
Ethernet Ports	<ul style="list-style-type: none"> 2 ports, auto MDX, auto-sensing 10/100 Mbps, RJ-45 Power over Ethernet (802.3af)
LED display	<ul style="list-style-type: none"> Power/status, Ethernet status, wireless status, wireless network quality indicator, Director status
Lock Option	<ul style="list-style-type: none"> Integrated Kensington lock

Performance and Supported Configurations

Concurrent stations	<ul style="list-style-type: none"> Up to 50
Target UDP throughput	<ul style="list-style-type: none"> 15-20 Mbps (54 Mbps bursts) sustainable throughout a 5000 square foot (460m²) public area
Simultaneous Vo-Fi clients	<ul style="list-style-type: none"> up to 20

Traffic Management and Quality of Service

Classes of service	<ul style="list-style-type: none"> Voice, video, best effort and background
Software queues	<ul style="list-style-type: none"> 4 per station
Automatic traffic classification	<ul style="list-style-type: none"> Automatic type of service tagging for multicast video packets
Rate Limiting	<ul style="list-style-type: none"> Supported
VLAN support	<ul style="list-style-type: none"> 802.1Q
Heuristic classification	<ul style="list-style-type: none"> Supported

Management (when individually managed)

Configuration	<ul style="list-style-type: none"> Web user interface, CLI (Telnet), SSH HTTP/S, SNMP statistics interface
Statistics	<ul style="list-style-type: none"> LAN, wireless and associated stations (accessible via Web UI)
Software update	<ul style="list-style-type: none"> FTP or TFTP, remote auto available

Wi-Fi

Standards	<ul style="list-style-type: none"> 802.11b/g
Supported data rates	<ul style="list-style-type: none"> 54,48,36,24,18,12,11,5.5,2,1 Mbps
Channels	<ul style="list-style-type: none"> US/Canada: 1-11 Europe (ETSI X30): 1-13 Japan X41: 1-13
Auto channel selection	<ul style="list-style-type: none"> Supported
RF power output	<ul style="list-style-type: none"> 23 dBm for wireless-B 23 dBm for wireless-G Country-specific power settings are configurable
Transmit power control	<ul style="list-style-type: none"> Supported
BSSID	<ul style="list-style-type: none"> Up to four
Power Save	<ul style="list-style-type: none"> Supported
Certifications	<ul style="list-style-type: none"> FCC (U.S.), CE (EU), OFTA (Hong Kong) Canada, Australia/New Zealand Plenum rating (UL 2043) - in process WEEE/ROHS compliance
Wireless Security	<ul style="list-style-type: none"> WEP, WPA-PSK, WPA-TKIP, WPA2-AES Authentication via 802.1X with the ZoneDirector, local authentication database, support for RADIUS and ActiveDirectory

Deployment

Options	<ul style="list-style-type: none"> Managed by ZoneDirector Individually managed
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Product Ordering information

Model	Description
ZF2942 (US, EU, UK, AU, UN)	2-port centrally managed multimedia AP

PLEASE NOTE:

When ordering you must specify the destination region by indicating -US -EU or -UK following the model number.

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Ruckus Wireless, Inc.

880 W. Maude Avenue, Suite 101

Sunnyvale, CA 94085 USA

TEL +1 650-265-4200 FAX +1 408-738-2065

www.ruckuswireless.com