



data sheet

BENEFITS

Unleash The Performance

In the Unleashed version, the ZoneFlex R600 is capable of supporting controller-less deployments for up to 25 access points and 512 concurrent devices

Extended range requires fewer APs

Adaptive antenna technology delivers up to 2x increase in Wi-Fi signal coverage minimizing the number of APs required to service any area

Sleek, low profile enclosure for ease-of-deployment

Aesthetically-pleasing design and a range of mounting options

Channel selection optimizes throughput

ChannelFly dynamic channel management, based on throughput measurements, not just interference, chooses the best channel to give users the highest possible throughput

Super simple configuration and management

The industry's simplest configuration and management through a Web-based wizard

Flexible migration options

Standalone or controller-based migration

Adaptive Polarization Diversity (PD-MRC)

Dual-polarized antennas that are dynamically selected provide better reception for hard to hear clients and more consistent performance as clients constantly change orientation

Hassle free migration to higher speed Wi-Fi

Support for standard 802.3af power over Ethernet allows enterprises to use existing PoE switches without costly upgrades

ZoneFlex™ R600 Unleashed™

DUAL-BAND 802.11AC 3X3:3 SMART WI-FI ACCESS POINTS

802.11ac High Performance Mid-Range 3X3:3 Smart Wi-Fi Access Points with Adaptive Antenna Technology

Ruckus R600 Unleashed enables controller-less Wi-Fi architecture for small business environments with superior performance, lower costs and simplified management. Separate controllers and access point licenses are no longer needed, significantly reducing upfront costs. Set-up is also easy, thanks to a simplified web interface that helps businesses configure Wi-Fi in just 60 seconds.

The ZoneFlex R600 Unleashed combines patented adaptive antenna technology and automatic interference mitigation to deliver consistent, predictable performance at extended ranges with up to an additional 6dB of BeamFlex gain on top of the physical antenna gain and up to 15dB of interference mitigation.

The R600 is ideal for wireless networks servicing mobile devices with dual-polarized antennas that adapt in real time to maximize performance for the mobile enterprise.

Performance is further enhanced as the ZoneFlex R600 Unleashed integrates Ruckus' patented BeamFlex, a software-controlled, high gain adaptive antenna technology. The ZoneFlex R600 Unleashed automatically selects channels for highest throughput potential using Ruckus ChannelFly dynamic channel management, adapting to environmental changes.

A sleek and low-profile design, the ZoneFlex R600 Unleashed was purpose-built for small-medium enterprises requiring reliable high speed client connectivity. It is ideal for a variety of medium density enterprise and hotspot environments including SMB's such as small venues, local retailers and non franchise restaurants, etc.

ZoneFlex™

R600 Unleashed

DUAL-BAND 802.11AC SMART WI-FI ACCESS POINTS

Patented BeamFlex+™ Technology Extends Signal Range, Improves Stability of Client Connections

All ZoneFlex R600 Smart Wi-Fi access points integrate a software-controlled smart antenna with PD-MRC (polarization diversity) that delivers up to an additional 6 dB of BeamFlex gain and 15 dB of interference mitigation. This is especially beneficial to enhance the performance of mobile devices which are constantly in motion and changing orientation.

Advanced WLAN Applications

Each ZoneFlex R600 Unleashed supports a wide range of value-added applications such as guest networking, Dynamic PSK, hotspot authentication, wireless intrusion detection and many more. In a controller-less configuration, the ZoneFlex R600 Unleashed works with a wide range of authentication servers including Microsoft's Active Directory, and AAA/RADIUS.

Flexible Migration Options

Ruckus Unleashed is custom-designed to help small business owners grow their business, deliver an excellent customer experience and manage costs while supporting Wi-Fi and a variety of mobile devices with minimal IT staff.

Unleashed access points have built-in controller capabilities, including user access controls, guest networking functions, advanced Wi-Fi security and traffic management.

As businesses grow to multiple sites or a larger scale deployment, Ruckus offers an easy migration path to controller-based Wi-Fi, using the same Wi-Fi access points.

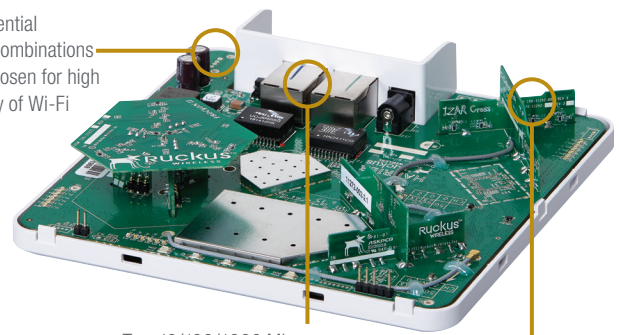
Complete Local and Remote Management

ZoneFlex R600 Unleashed can be securely managed from anywhere at anytime using any browser on any device.

FEATURES

- Dual-band concurrent (2.4GHz/5GHz)
- Adaptive antenna technology and advanced RF management
- Up to an additional 6dB BeamFlex gain / 15dB interference mitigation / 3 dBi physical antenna gain
- Automatic interference mitigation, optimized for high-density environments
- Integrated smart antenna technology
- Standard 802.3af Power over Ethernet (PoE)
- DHCP services
- IP multicast video streaming support
- Advanced QoS packet classification and automatic priority for latency-sensitive traffic
- Dynamic, pre-user rate-limiting for hotspot WLANs
- WPA-PSK (AES), 802.1X support for RADIUS and Active Directory
- BYOD, Zero-IT and Dynamic PSK
- Admission control/load balancing
- Band steering and airtime fairness support
- Rich and customizable guest access services
- Application recognition and control
- SmartWay Bonjour gateway
- SecureHotspot
- Band balancing

Many potential antenna combinations can be chosen for high availability of Wi-Fi



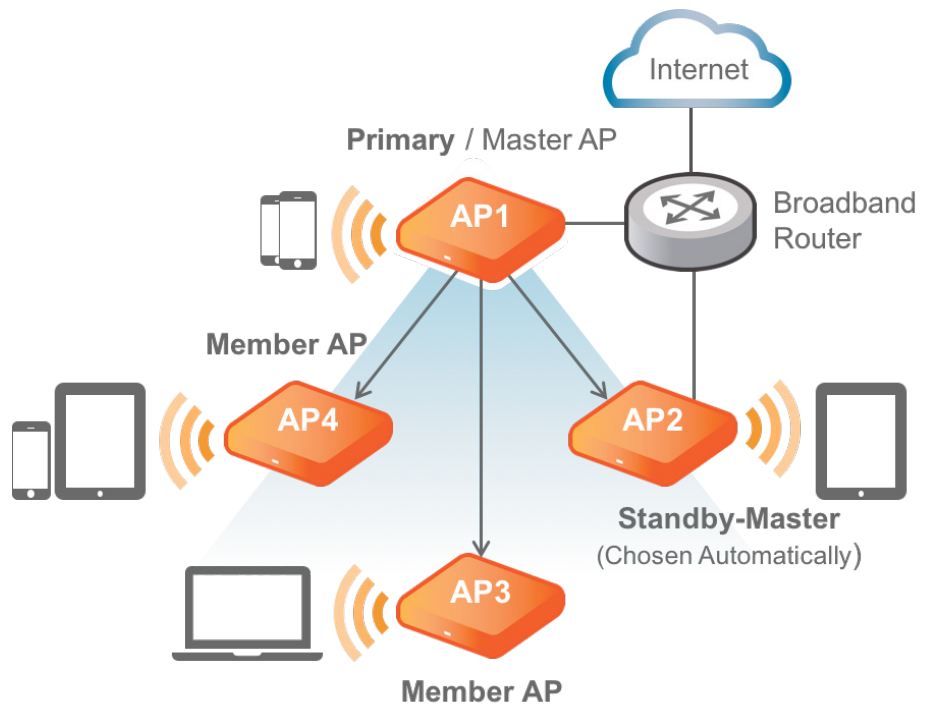
Two 10/100/1000 Mbps ports; one with PoE

High-gain directional antenna elements not only delivers signal gain but also interference mitigation for range extension, reliability and high data rates

ZoneFlex™ R600 Unleashed

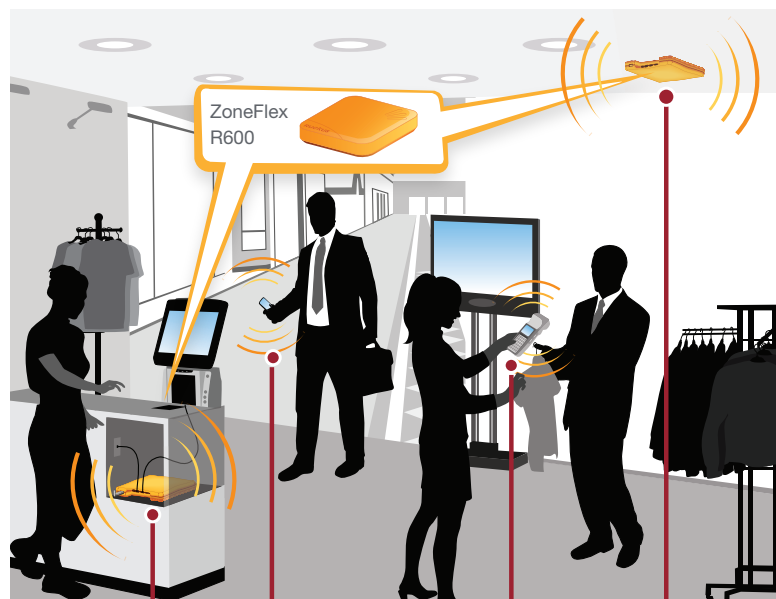
DUAL-BAND 802.11AC SMART WI-FI ACCESS POINTS

The ZoneFlex R600 Unleashed integrates with your existing network infrastructure, delivering best-in-class 802.11ac performance and reliability at a competitive price—making it the ideal wireless solution for small business environments.



DEPLOYMENT FOR RETAIL

The ZoneFlex R600 Unleashed is ideal for deployment in retail stores to provide inconspicuous wireless connection to high quality video, wireless IP phones and data access for handheld PoS bar code scanners.



Wired ports to connect devices such as cash registers, printers, etc.

Multiple SSIDs for differentiated user services (e.g., guest Wi-Fi, point of sale, voice)

Reliable Wi-Fi connectivity for point of sale devices

5GHz band and smart antenna system ideal for 11ac clients

Specifications*

PHYSICAL CHARACTERISTICS	
POWER	- DC Input: 12 VDC 1.0A - Power over Ethernet 802.3 af
PHYSICAL SIZE	15.8 cm x 15.8 cm x 4 cm (6.2 in x 6.2 in x 1.57 in)
WEIGHT	364 g (0.8 lb.)
ETHERNET PORTS	2 auto MDX, auto-sensing 10/100/1000 Mbps, RJ-45, POE port (on one port)
LOCK OPTIONS	- Hidden latching mechanism - Kensington Lock Hole - T-bar Torx - Bracket (902-0108-0000) Torx screw & padlock (sold separately)
ENVIRONMENTAL CONDITIONS	- Operating Temperature: 0°C - 40°C - Operating Humidity: 10% - 95% non-condensing
POWER DRAW	- Idle: 4W - Typical: 6.2W - Peak: 11.2W

CAPACITY	
CONCURRENT STATIONS	Up to 512 clients per AP
SIMULTANEOUS VoIP CLIENTS	Up to 30

RF	
ANTENNA	- Adaptive antenna that provides up to 512 unique antenna patterns per radio - Full omnidirectional polarization diversity
PHYSICAL ANTENNA GAIN	Up to 3 dBi
BEAMFLEX* SINR TX GAIN	Up to 6 dB
BEAMFLEX* SINR RX GAIN	3-5 dB (PD-MRC)
INTERFERENCE MITIGATION	Up to 15 dB
MINIMUM RX SENSITIVITY	Up to -101 dBm

*BeamFlex gains are statistical system level effects translated to enhanced SINR based on observations over time in real-world conditions with multiple APs and many clients

*Specifications subject to change without notice.

WI-FI	
STANDARDS	- IEEE 802.11a/b/g/n/ac 2.4GHz and 5GHz
SUPPORTED DATA RATES	802.11n/ac: 6.5Mbps – 260Mbps (20MHz) 13.5Mbps – 600Mbps (40MHz) 29.3Mbps – 1300Mbps (80MHz) 802.11a: 54, 48, 36, 24, 18, 12, 9 and 6Mbps 802.11b: 11, 5.5, 2 and 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps
RADIO CHAINS	3 x 3
SPATIAL STREAMS	3
RF POWER OUTPUT (Aggregate)	28 dBm for 2.4GHz† 27 dBm for 5GHz†
CHANNELIZATION	20MHz, 40MHz, 80MHz
FREQUENCY BAND	- IEEE 802.11 b/g/n: 2.4 – 2.484 GHz - IEEE 802.11a/ac: 5.15 – 5.25 GHz; 5.25 – 5.35 GHz; 5.47 – 5.725 GHz; 5.725 – 5.85 GHz
OPERATING CHANNELS	- US/Canada: 1-11, Europe (ETSI X30): 1-13, Japan X41: 1-13 5 GHz channels: Country dependent
POWER SAVE	Supported
WIRELESS SECURITY	Authentication via 802.1X with the ZoneDirector, local authentication database, support for RADIUS, ActiveDirectory, and DPSK
CERTIFICATIONS*	- US, Europe, Argentina, Australia, Brazil, Canada, Chile, China, Colombia, Costa Rica, Egypt, Hong Kong, India, Indonesia, Israel, Japan, Korea, Malaysia, Mauritius, Mexico, New Zealand, Pakistan, Peru, Philippines, Russia, Saudi Arabia, Singapore, South Africa, Taiwan, Thailand & UAE. - WEEE/RoHS compliance - EN-60601-1-2 (Medical) - Wi-Fi Alliance - EN50121-1 Railway EMC - EN50121-4 Railway Immunity - IEC 61373 Railway Shock & Vibration - UL 2043 plenum rated 5GHz UNII-1 (2014)

† Maximum power varies by country

*See price list for latest country certification listing

MODEL	DESCRIPTION
ZoneFlex R600 Smart Wi-Fi 802.11ac Access Point	
9U1-R600-XX00	Concurrent dual band 802.11ac Unleashed Access Point, no power adapter
Optional Accessories	
902-0108-0000	Spare, Accessory Mounting Bracket
902-0173-XXYY	Power Adapter, AC/DC wall plug, 100-240Vac 50/60Hz
902-0162-XXYY	PoE injector (sold in quantities of 10 or 100)

PLEASE NOTE: When ordering ZoneFlex Indoor APs, you must specify the destination region by indicating -US, -IL, or -WW instead of XX. When ordering PoE injectors or power supplies, you must specify the destination region by indicating -US, -EU, -AU, -BR, -CN, -IN, -JP, -KR, -SA, -UK, or -UN instead of -XX.