

Ruckus ZoneFlex R710 Dual-band 4X4:4 802.11AC Smart Wi-Fi Access Point



Product Name: Ruckus ZoneFlex R710 Dual-band 4X4:4 802.11AC Smart Wi-Fi Access Point

Manufacturer: Ruckus Wireless

Model Number: 901-R710-WW00

Ruckus ZoneFlex R710 Dual-band 4X4:4 802.11AC Wave 2 Smart Wi-Fi Access Point

The Ruckus ZoneFlex R710 Dual-band 4X4:4 802.11AC Smart Wi-Fi Access Point combines Ruckus patented technologies and best-in-class design with the next generation of 802.11ac features to deliver industry-leading Wi-Fi performance and reliability.

Ruckus ZoneFlex R710 Key Features

- 802.11ac Multi-User MIMO (MU-MIMO)
- Concurrent dual-band (5 GHz/2.4 GHz) support
- 80 MHz channelization; 256-QAM modulation support; 1733 Mbps PHY rates at 5 GHz
- 256-QAM support on 2.4GHz
- Ethernet Port Link Aggregation (LACP)
- Backward compatible with legacy 802.11 clients
- 802.3af mode of operation
- 802.11ac standard Tx Beamforming

Featuring BeamFlex+ adaptive antenna technology, the ZoneFlex R710 offers a substantial increase in performance and range by optimizing antenna coverage on a per client, per transmission basis. BeamFlex+ additionally mitigates co-channel interference by directing Wi-Fi signals where they are needed instead of towards neighboring access points.

The R710's BeamFlex+ adaptive antenna system is also equipped with dual polarization antennas, allowing the access point to adapt to the physical orientation of client devices and maximize uplink performance. With throughput capacities of 800 Mbps (2.4GHz) and 1733 Mbps (5GHz), the ZoneFlex R710 supports the highest available throughput for Wi-Fi clients. 802.11ac Multi-User MIMO (MU-MIMO) support allows the R710 to simultaneously transmit to multiple client devices, drastically improving airtime efficiency, overall throughput, and availability.

Ruckus ZoneFlex R710 - Technical Specifications

Additional Features

- Space Time Block Coding for increased handset performance
- Improved Maximum Ratio Combining (MRC) for best-in-class receive sensitivity
- Low Density Parity Check (LDPC) for increased data throughput at all ranges
- BeamFlex+ (PD-MRC) improves signal reception of mobile devices
- Integrated smart antenna with many unique patterns for ultra reliability
- Unmatched Rx sensitivity down to -104 dBm
- USB port for hosting Internet-of-Things (IoT) devices such as Bluetooth Low Energy (BLE) smart beacons
- Either standalone or centrally managed
- Integrated NAT and DHCP support
- Multicast IP video streaming support
- Four software QoS queues per client station
- Up to 16 BSSIDs per radio with unique QoS and security policies
- Wall or ceiling mountable with padlock security
- Built in mounting options for fast and easy deployment
- WPA-PSK (AES), 802.1X support for RADIUS and AD*
- Zero-IT and Dynamic PSK*
- Admission control/load balancing*
- Band balancing
- Captive portal and guest accounts ** when used with management.

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Physical Characteristics

- Power DC Input: 12 VDC 1.5APoE: 802.3af/at802.3af mode feature:Limits 2.4GHz transmit to 25dBm (aggregate, 4-streams)Turns off USB portTurns off Ethernet 1 port
- Physical Size 22 cm (L), 22 cm (W), 6 cm (H)
- Weight 1.1kg / 2.3 lbs.
- RF Adaptive antenna array: 3,000+ unique antenna patterns, polarization diversityMaximum Transmit Power1 28 dBm on 2.4 GHz; 28 dBm on 5 GHzPhysical antenna gain: 3 dBi (2.4 and 5GHz)BeamFlex SINR Tx gain2: up to 6 dBBeamFlex SINR Rx gain: up to 4 dBInterference mitigation: up to 15 dBMinimum Rx sensitivity3: -104 dBm
- Ethernet Ports 2 ports, auto MDX, auto-sensing 10/100/1000 Mbps, RJ-45Power over Ethernet (802.3af/at) with Category 5/5e/6 cableLink Aggregation (LACP)
- Environmental Conditions Operating Temperature: 32°F (0°C) - 122°F (50°C)Operating Humidity: up to 95% non-condensing
- Power Consumption 8W (minimum)11W (typical)20W (peak)12.95W (peak in 802.3af mode)

Performance and Capacity

- Physical Data Rates Up to 800 Mbps (2.4GHz)Up to 1733 Mbps (5GHz)
- Concurrent Stations Up to 500

Network Architecture

- IP IPv4, IPv6, dual-stackVLANs 802.1Q (1 per BSSID or dynamic, per user based on RADIUS)
- Port-based802.1x for Wired Ports
- AuthenticatorSupplicant
- Tunneling L2TP, PPPoE

Multimedia and Quality of Service

- 802.11e/WMM Supported
- Software Queues Per WLAN priority (2), Per traffic type (4), per client
- Traffic Classification Automatic, heuristics and TOS based or VLAN-defined
- Rate Limiting Dynamic per-user or per-WLAN

Management

- Deployment Options
- Standalone (individually managed)
- Centrally managed

Wi-Fi

- Standards IEEE 802.11a/b/g/n/ac
- Supported Data Rates 802.11ac: 29.3 Mbps – 1733 Mbps (80MHz)802.11n: 6.5 Mbps – 216.7 Mbps(20MHz) 13.5 Mbps – 800 Mbps (40MHz)802.11a: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps802.11b: 11, 5.5, 2 and 1 Mbps802.11g: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps
- Radio Chains / Streams 4x4:4MIMO SU-MIMO — Up to 4 streamsMU-MIMO — Up to 3 streams
- Channelization 20 MHz, 40 MHz, and/or 80 MHz
- Frequency Band IEEE 802.11ac: 5.15 – 5.85 GHzIEEE 802.11a/n: 5.15 – 5.85 GHzIEEE 802.11b: 2.4 – 2.484 GHz

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- BSSIDs Up to 16 (2.4 GHz)Up to 16 (5 GHz)
- Power Save Supported
- Certifications* WEEE/RoHS complianceEN 60601-1-2 MedicalWi-Fi Alliance certifiedUL 2043 plenum rated
- Subway and Railroad Certifications EN50121-1 EMCEN50121-4 ImmunityIEC 61373 Shock & Vibration

Notes

1 Max power varies by country setting, band, and MCS rate2 BeamFlex+ gains are statistical system-level effects (including TxBF),translated to enhanced SINR here, and based on observations over time inreal-world conditions with multiple APs and many clients3 Rx sensitivity varies by band, channel width, and MCS rate* Refer to price list for current country certifications

Price: £944.30
