

R560 | RUCKUS R560 Indoor Access Point



High-Performance Tri-Radio Wi-Fi 6E 2x2:2 Indoor Access Point with 4.7 Gbps max rate and Embedded IoT

Bandwidth-hungry ultra-high definition video, virtual reality, Internet of Things (IoT). An explosion of new devices and content. With these kinds of demands, organization in every industry need more from their Wi-Fi. But with hundreds of devices and nonstop wireless noise and interference, busy indoor spaces can make challenging wireless environments.

- **Industry Leading Performance:** With support for the latest Wi-Fi 6E standard, the R560 takes advantage of the 6 GHz band via three dedicated radios for up to 4.7 Gbps aggregated max throughput Improving device performance by enabling more simultaneous device connections.
- **Smart Antenna Technology:** For greater speed, fewer errors, and instant bandwidth delivery, RUCKUS BeamFlex+ patented technology offers first-of-its-kind smart antenna technology that maximizes signal coverage, throughput, and network capacity. It further increases MIMO diversity gain and maximize spatial multiplexing potential—at minimal cost.
- **Multigigabit wired backhaul:** Optimized multi-gigabit Wi-Fi performance delivered using a built-in 5GbE/2.5GbE Ethernet port to connect to multi-gigabit switches and eliminate backhaul capacity bottlenecks
- **Reduced Interference** - RUCKUS ChannelFly patented dynamic channel technology uses machine learning to automatically find the least congested channels. You always get the highest throughput the band can support. Additionally, the use of the 6Ghz band triples the spectrum available for Wi-Fi significantly reducing interference
- **Hi-Performance 6 GHz Mesh Networking:** RUCKUS Smart Mesh reduces complexity and cabling expenses with the ability to dynamically create self-forming, self-healing mesh networks between APs wirelessly. The RUCKUS R560 takes advantage of both the 5Ghz and the 6Ghz band to create Smart Mesh links between APs inherently benefiting from the high performance and low interference offered in the 6Ghz band
- **Converged Access Point:** Eliminate siloed wireless networks with a unified AP that augments Wi-Fi with onboard BLE/Zigbee radio and offer the option to add support for future IoT technologies via the USB port. The RUCKUS IoT Suite accelerates the deployment of IoT networks through the reuse of existing LAN and WLAN infrastructure, thus reducing cost, and increasing value.
- **Multiple management options:** Manage the R560 with on premise physical/virtual appliances, cloud, and control auto-provisioning for faster deployment, seamless firmware upgrades and advanced network Analytics like all RUCKUS APs.
- **Enhanced Security:** Supports the latest Wi-Fi security standard, WPA3, for enhanced protection from man-in-the-middle attacks. Adds the power of DPDK to WPA3/SAE combining enhanced security with the flexibility and ease of use of dynamic passphrase to secure network access.

Product Classification

Regional Availability	Asia Australia/New Zealand EMEA Latin America North America
Product Type	Indoor access point
Product Brand	RUCKUS®

General Specifications

Antenna Patterns, per band	4000+
Antenna Gain	Up to 4 dBi

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BeamFlex	Yes
ChannelFly	Yes
Concurrent Users	1536
Controller Support	RUCKUS Cloud™ RUCKUS SmartZone Standalone
Ethernet Ports	1 x 1 / 2.5 / 5 GbE 1 x 1 GbE
IoT Support	IoT Onboard
Number of Radios	Tri-Radio
PD-MRC	Yes
PHY Rate at 2.4 GHz, maximum	591 Mb/s
PHY Rate at 5 GHz, maximum	1237 Mb/s
PHY Rate at 6 GHz, maximum	2882 Mb/s
Combined Max PHY Rate	4710 Mb/s
Radio Chains and Streams	2x2:2
Rx Sensitivity at 2.4 GHz	-94 dBm
Rx Sensitivity at 5 GHz	-94 dBm
Rx Sensitivity at 6 GHz	-94 dBm
SmartMesh	Yes
USB	USB 2.0
Venue Type	Education Hospitality Office/Retail Public Venue
Venue Sub-Type	Convention Floor Lecture Hall Transit Stations Venue Common Spaces
Wi-Fi Bands Supported	2.4 GHz 5 GHz 6 GHz
Wi-Fi Version	Wi-Fi 6E
Wi-Fi Interface Standard	IEEE 802.11a/b/g/n/ac/ax

Environmental Specifications

Operating Temperature	0 °C to +50 °C (+32 °F to +122 °F)
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