

R550 | RUCKUS R550 Indoor Access Point



High Performance Wi-Fi 6 2x2:2 Indoor Access Point with 1.8 Gbps HE80 /40 Speeds and Embedded IoT

- Stunning Wi-Fi Performance - Mitigate interference and extend coverage with patented BeamFlex+™ adaptive antenna technology utilizing several directional antenna patterns
- Serve more devices - Connect more devices simultaneously with four MU-MIMO spatial streams and concurrent dual-band 2.4/5GHz radios while enhancing device performance
- Converged access point - Allow customers to eliminate siloed networks and unify Wi-Fi and IoT technologies into one single network by using built-in Bluetooth® Low Energy and Zigbee, and also expand to any future wireless technologies
- Automate Optimal Throughput - ChannelFly dynamic channel technology uses machine learning to automatically find the least congested channels. You always get the highest throughput the band can support
- Better Mesh Networking - Reduce expensive cabling, and complex mesh configurations by checking a box with SmartMesh wireless meshing technology to dynamically create self-forming, self-healing mesh networks
- More than Wi-Fi - Support services beyond Wi-Fi with RUCKUS IoT Suite, Cloudpath security and onboarding software, SPoT Wi-Fi locationing engine, and RUCKUS analytics

Wi-Fi capacity requirements in classrooms, office spaces, and medium-size venues are rising due to the increase in the number of Wi-Fi connected devices. An increase in bandwidth requirements for applications and an ever-growing assortment of IoT devices puts further strain on already stretched Wi-Fi networks.

The R550 access point (AP) with the latest Wi-Fi 6 (802.11 ax) technology delivers the ideal combination of increased capacity, improved coverage and affordability in dense environments. The R550 is our mid-range dual-band, dual-concurrent AP that supports four spatial streams (2x2:2 in 2.4GHz/5GHz). The R550 supports peak data rates of up to 1774 Mbps and efficiently manages up to 512 clients connections.

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	64
Antenna Gain	Up to 3 dBi
BeamFlex	Yes
ChannelFly	Yes
Concurrent Users	512
Controller Support	RUCKUS Cloud™ RUCKUS SmartZone RUCKUS ZoneDirector Standalone
Ethernet Ports	2 x 1 GbE

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IoT Support	IoT Onboard
PD-MRC	Yes
PHY Rate at 2.4 GHz, maximum	574 Mb/s
PHY Rate at 5 GHz, maximum	1200 Mb/s
Radio Chains and Streams	2x2:2 (5 GHz / 2.4 GHz)
Rx Sensitivity at 2.4 GHz	-97 dBm
Rx Sensitivity at 5 GHz	-97 dBm
SmartMesh	Yes
USB	USB 2.0
Venue Type	Education Hospitality Office/Retail
Venue Sub-Type	Classroom Hallways Office Space
Wi-Fi Interface Standard	IEEE 802.11a/b/g/n/ac/ax
Wi-Fi Interface Standard at 2.4 GHz	802.11ax
Wi-Fi Interface Standard at 5 GHz	802.11ax

Environmental Specifications

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