

RUCKUS T 710

HIGH-END 802.11AC WAVE 2 AP WITH MU-MIMO AND BEAMFLEX+

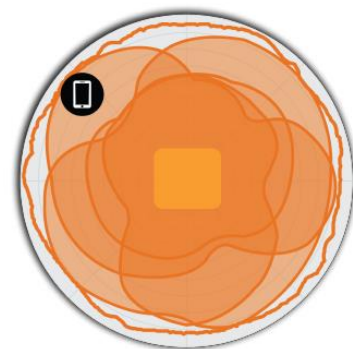
The T710 is an ideal solution for high-density public venues such as airports, convention centers, plazas, malls, and other dense urban environments.



ACCESS POINT ANTENNA PATTERN

Ruckus' BeamFlex+ adaptive antennas allow the T710 AP to dynamically choose among a host of antenna patterns (over 4,000 possible combinations) in real-time to establish the best possible connection with every device. This leads to:

- Better Wi-Fi coverage
- Reduced RF interference



Client Composite Pattern BeamFlex+

FEATURES

- **Great Outdoor Wi-Fi**
Experience high performance outdoor Wave 2 Wi-Fi with IP-67 weather proofing and dual backhaul options with SFP and 2 gigabit Ethernet ports
- **Stunning Wi-Fi Performance**
Extends coverage with patented BeamFlex+™ adaptive antenna technology while mitigating interference by utilizing over 4,000 directional antenna patterns
- **Get 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
- **More Than Wi-Fi**
Enhance your network with Cloudpath security and management software, SPoT real-time Wi-Fi location engine and analytics software, and SCI network analytics
- **Serve More Devices**
Connect more devices simultaneously with four MU-MIMO spatial streams and concurrent dual-band 2.4/5GHz radios while enhancing non-Wave 2 device performance.
- **Power other devices**
Daisy chain and power other devices like an IP camera, or another AP directly from the PoE output port
- **Multiple management options**
Manage the T710 from the cloud, with on-premises physical/virtual appliances, or without a controller

SPECIFICATIONS

WI-FI					
Wi-Fi Standards	<ul style="list-style-type: none"> • IEEE 802.11a/b/g/n/ac Wave 2 				
Supported Rates	<ul style="list-style-type: none"> • 802.11ac: 6.5 to 1,733Mbps (MCS0 to MCS9, NSS = 1 to 4 for VHT20/40/80) • 802.11n: 6.5Mbps to 600Mbps (MCS0 to MCS 31) • 802.11a/g: 54, 48, 36, 24, 18, 12, 9, 6Mbps • 802.11b: 11, 5.5, 2 and 1 Mbps 				
Supported Channels	<ul style="list-style-type: none"> • 2.4GHz: 1-13 • 5GHz: 36-64, 100-144, 149-165 				
MIMO	<ul style="list-style-type: none"> • 4x4 SU-MIMO • 4x4 MU-MIMO 				
Spatial Streams	<ul style="list-style-type: none"> • 4 SU-MIMO • 3 MU MIMO 				
Radio Chains and Streams	<ul style="list-style-type: none"> • 4x4:4 				
Channelization	<ul style="list-style-type: none"> • 20, 40, 80MHz 				
Security	<ul style="list-style-type: none"> • WPA-PSK, WPA-TKIP, WPA2 AES, 802.11i, Dynamic PSK • WIPS/WIDS 				
Other Wi-Fi Features	<ul style="list-style-type: none"> • WMM, Power Save, Tx Beamforming, LDPC, STBC, 802.11r/k/v • Hotspot • Hotspot 2.0 • Captive Portal • WISPr 				
RF					
Antenna Type	<ul style="list-style-type: none"> • BeamFlex+ adaptive antennas with polarization diversity • Adaptive antenna that provides over 4,000 unique antenna patterns per band 				
Antenna Gain (max)	<ul style="list-style-type: none"> • Omni - Up to 3dBi • Sector - Up to 8dBi 				
Peak Transmit Power (aggregate across MIMO chains)	<ul style="list-style-type: none"> • 2.4GHz: 28dBm • 5GHz: 28dBm 				
Minimum Receive Sensitivity ¹	<ul style="list-style-type: none"> • -104dBm 				
Frequency Bands	<ul style="list-style-type: none"> • ISM (2.4-2.484GHz) • U-NII-1 (5.15-5.25GHz) • U-NII-2A (5.25-5.35GHz) • U-NII-2C (5.47-5.725GHz) • U-NII-3 (5.725-5.85GHz) 				
2.4GHZ RECEIVE SENSITIVITY					
HT20		HT40			
MCS0	MCS7	MCS0	MCS7		
-97	-79	-94	-78		
5GHZ RECEIVE SENSITIVITY					
VHT20		VHT40		VHT80	
MCS0	MCS7	MCS0	MCS7	MCS0	MCS7
-96	-80	-94	-77	-91	-74
2.4GHZ TX POWER TARGET					
Rate	Pout (dBm)				
MCS0 HT20	22				
MCS7 HT20	19				
MCS0 HT40	22				
MCS7 HT40	19				
5GHZ TX POWER TARGET					
Rate	Pout (dBm)				
MCS0 VHT20	22				
MCS7 VHT20	19				
MCS0 VHT40, VHT80	22				
MCS7 VHT40, VHT80	19				
PERFORMANCE AND CAPACITY					
Peak PHY Rates	<ul style="list-style-type: none"> • 2.4GHz: 600Mbps • 5GHz: 1733Mbps 				
Client Capacity	<ul style="list-style-type: none"> • Up to 512 clients per AP 				
SSID	<ul style="list-style-type: none"> • Up to 31 per AP 				
RUCKUS RADIO MANAGEMENT					
Antenna Optimization	<ul style="list-style-type: none"> • BeamFlex+ • Polarization Diversity with Maximal Ratio Combining (PD-MRC) 				
Wi-Fi Channel Management	<ul style="list-style-type: none"> • ChannelFly • Background Scan Based 				

Client Density Management	<ul style="list-style-type: none"> • Adaptive Band Balancing • Client Load Balancing • Airtime Fairness • Airtime-based WLAN Prioritization
SmartCast Quality of Service	<ul style="list-style-type: none"> • QoS-based scheduling • Directed Multicast • L2/L3/L4 ACLs
Mobility	<ul style="list-style-type: none"> • SmartRoam
Diagnostic Tools	<ul style="list-style-type: none"> • Spectrum Analysis • SpeedFlex
NETWORKING	
Controller Platform Support	<ul style="list-style-type: none"> • SmartZone • ZoneDirector • Unleashed² • Cloud Wi-Fi • Standalone
Mesh	<ul style="list-style-type: none"> • SmartMesh™ wireless meshing technology Selfhealing Mesh
IP	<ul style="list-style-type: none"> • IPv4, IPv6
VLAN	<ul style="list-style-type: none"> • 802.1Q (1 per BSSID or dynamic per use based on RADIUS) • VLAN Pooling • Port-based
802.1x	<ul style="list-style-type: none"> • Authenticator & Supplicant
Tunnel	<ul style="list-style-type: none"> • L2TP, GRE, Soft-GRE
Policy Management Tools	<ul style="list-style-type: none"> • Application Recognition and Control • Access Control Lists • Device Fingerprinting • Rate Limiting
OTHER RADIO TECHNOLOGIES	
GPS	<ul style="list-style-type: none"> • Types GLONAS...etc
PHYSICAL INTERFACES	
Ethernet	<ul style="list-style-type: none"> • 2 x 10/100/1000 Mbps ports, RJ-45 • LACP
Fiber	<ul style="list-style-type: none"> • SFP, 1Gbps, NBASE-x
PHYSICAL CHARACTERISTICS	
Physical Size	<ul style="list-style-type: none"> • 31.7(L) x 24.1(W) x 9.5(H) cm • 12.5(L) x 9.49(W) x 3.7(H) in
Weight	<ul style="list-style-type: none"> • 2.95kg • 6.5lbs
Mounting	<ul style="list-style-type: none"> • Wall, Drop ceiling, Desk • Secure bracket (sold separately)
Physical Security	<ul style="list-style-type: none"> • Hidden latching mechanism • Kensington lock • T-bar Torx
Operating Temperature	<ul style="list-style-type: none"> • -40°C (-40°F) to 65°C (145°F)
Operating Humidity	<ul style="list-style-type: none"> • Up to 95%, non-condensing
Wind Survivability	<ul style="list-style-type: none"> • Up to 266km/h (165mph)
POWER³	
Power Supply	Max Power Consumption
802.3at	<ul style="list-style-type: none"> • 25W
CERTIFICATIONS AND COMPLIANCE	
Wi-Fi Alliance ⁴	<ul style="list-style-type: none"> • Wi-Fi CERTIFIED™ a, b, g, n, ac • Passpoint®, Vantage
Standards Compliance ⁵	<ul style="list-style-type: none"> • EN 60950-1 Safety • EN 60601-1-2 Medical • EN 61000-4-2/3/5 Immunity • EN 50121-1 Railway EMC • EN 50121-4 Railway Immunity • IEC 61373 Railway Shock & Vibration • UL 2043 Plenum • EN 62311 Human Safety/RF Exposure • WEEE & RoHS • ISTA 2A Transportation
SOFTWARE AND SERVICES	
Location Based Services	<ul style="list-style-type: none"> • SPoT
Network Analytics	<ul style="list-style-type: none"> • SmartCell Insight (SCI)
Security and Policy	<ul style="list-style-type: none"> • Cloudpath

¹ Rx sensitivity varies by band, channel width and MCS rate.

² Refer to Unleashed datasheets for SKU ordering information.

³ Max power varies by country setting, band, and MCS rate.

⁴ For complete list of WFA certifications, please see the Wi-Fi Alliance website.

⁵ For current certification status, please see the price list.