MODEL

T300

OUTDOOR 802.11AC 2X2:2 WI-FI ACCESS POINT

Ruckus®
Simply Better Wireless.

Modern users expect reliable connectivity on their mobile devices—anywhere, anytime. But in crowded outdoor venues with thousands of users and constant RF noise and interference, they are often frustrated by poor coverage, dropped connections, and reduced data rates. These bad Wi-Fi experiences can easily translate to negative perceptions of the venue overall.

The Ruckus T300 Series of dual-band 802.11ac outdoor access points provide consistent, reliable Wi-Fi connectivity in crowded public venues, at an affordable price. Available with either internal omni-directional antennas or optional external 5GHz antenna support, the T300 Series uses patented Ruckus antenna optimizations and interference mitigation technologies to extend range, improve throughput, and deliver industry-leading 802.11ac performance to every connected client. At the same time, the T300 Series is designed for fast, simple installation with an ultra-lightweight, low-profile, IP 67-rated enclosure that can stand up to the rigors of outdoor deployments.

The Ruckus T300 Series is perfect for high-density public venues such as airports, conventions centers, plazas and malls, and other dense urban environments. By providing a superior Wi-Fi experience to every user in high-capacity outdoor spaces, venue operators can improve guest satisfaction and loyalty, deliver new kinds of wireless location-based services, and increase revenues.

The Ruckus T300 Series incorporates patented technologies found only in the Ruckus Wi-Fi portfolio.

- Extended coverage with patented BeamFlex+ utilizing multi-directional antenna patterns.
- Improve throughput with ChannelFly, which dynamically finds less congested Wi-Fi channels to use.

Whether you're deploying ten or ten thousand APs, the T300 Series is also easy to manage through Ruckus' appliance, virtual, and cloud management options.

BENEFITS

GOOD OUTDOOR WI-FI

Industrial-grade IP-67 hardened enclosures (-40°C to +65°C).

GREAT WI-FI PERFORMANCE

Provide a great user experience no matter how challenging the environment with BeamFlex+™ adaptive antenna technology using up tp 64-directional antenna patterns.
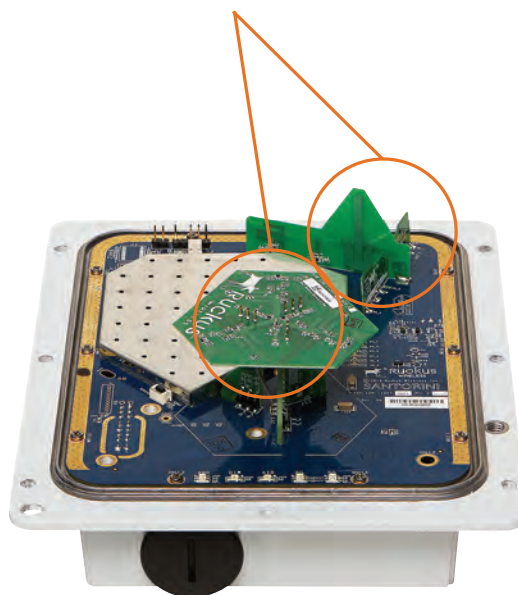
GET OPTIMAL THROUGHPUT

Improve performance automatically with ChannelFly and machine learning, which finds less congested Wi-Fi channels with dynamic RF channel selection.

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.

BeamFlex Adaptive Antenna

RUCKUS T300

DUAL-BAND 802.11AC 2X2:2, 1167 MBPS

Internal omni directional antenna for 2.4GHz and 5GHz

- Well suited to high-density deployments

Best for omni coverage and high capacity

RUCKUS T300E

DUAL-BAND 802.11AC 2X2:2, 1167 MBPS

Internal omni directional antenna for 2.4GHz and 5GHz, support for optional external 5GHz antennas

- Well suited to high-density deployments
- Best for "greenfield" applications requiring 2.4GHz access and long range 5GHz Smart-Mesh wireless meshing technology**
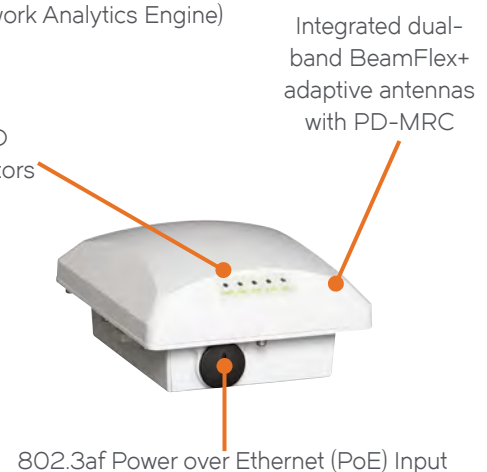
FEATURES

WIRELESS

- Concurrent dual-band (5GHz/2.4GHz) support
- 1167 Mbps of total WLAN RF capacity
- BeamFlex+ adaptive antenna technology and advanced RF management
- Up to 10dB interference mitigation
- Optimized for high-density environments
- Polarization diversity for optimal mobile device performance
- IP-67 rated, -20°C to +65°C
- Adjustable bracket included
- Small, lightweight, and sleek form factor
- Standalone or centrally managed by ZoneDirector, SCG 200, or FlexMaster
- WPA-PSK (AES), 802.1X support for RADIUS and Active Directory*
- Intelligent Band steering
- Airtime fairness
- Band balancing*

INTERFACES

- 1 x 1GbE port

POWER

- 802.3at (PoE+)

SOFTWARE

- Dynamic, per-user rate-limiting for hotspot WLANs
- Zero-IT, and Dynamic PSK*
- Captive portal and guest accounts *
- Admission control/load balancing*
- Application recognition and control*
- Secure HotSpot*
- Wall or ceiling mountable with unobtrusive design
- Built in mounting options for fast an easy deployment
- Smart Positioning Technology*
  (Real-time location engine and analytics software)
- Cloudpath (Security and Management Software)
- SmartCell Insight (Network Analytics Engine)
- SmartMesh**
- Smart QoS

15 cm / 5.9"

18 cm / 7"

8.6 cm / 3.4"

.9 kg

Optional external 5GHz antennas

(T300e only)

Protective vent to equalize pressure

LED Indicators

Integrated dual-band BeamFlex+ adaptive antennas with PD-MRC

802.3af Power over Ethernet (PoE) Input

PHYSICAL CHARACTERISTICS

Power	• 802.3af PoE Input (Class 3 PD)
Physical Size	• 7" x 5.9" x 3.4" (18cm x 15cm x 8.6cm)
Weight	• 2.1 lbs (1 kg) with bracket • 2 lbs (0.9 kg) without bracket
Ethernet Ports	• 10/100/1000Base-T 802.3,802.3 u,802.3ab • 802.3at/af PoE PD Input • Jumbo frame support (2290 byte max MTU)
RF CONNECTORS	• N female qty 2 (optional 5GHz only)
Mounting Options	• Wall Mount • Pole Mount Diameter 1" to 2.5"
Environmental Conditions	• Operating temperature range: -20°C to +65° C • Weather protection: IP67 per IEC 60529
Power Draw	PoE Input • Idle: 6.5W • Typical: 7.5W • Peak: 11W

CERTIFICATION SPECS

Transportation	• ISTA 2A:
	   • Random Vibration & Drop Test
	   • Compression & Loose Cargo Test
	 • ETSI EN 300 019-2-2 Specification T 2.2 Careful transportation

Safety	• Safety Listing - EU • EN 60950-1:2006/A12:2011 • EN 60950-22:2006/AC:2008 • International • CB Scheme Certificate • CB Bulletin • IEC 60950-1: 2005 Second Edition • IEC 60950-22: 2005 First edition • CISPR 22 • CISPR 24 • CAN/CSA C22.2 60950-1 Edition 2 • CAN/CSA C22.2 60950-22 Edition 1
Health And Human Safety To Rf Exposure	• EN 62311:2008 • EN 50385:2002 • FCC OET-65 • ICNIRP:2010
Hazardous Materials	• RoHS Directive 2002/95/EC • RoHS Directive 2011/65/EU • WEEE
Immunity	• EN61000-4-2 Level 4 Contact / Level 3 Air ESD Immunity • EN61000-4-5 Level 1 & 2 Immunity • EN61000-4-3 Level 4 EMC Immunity • GR1089 - 1kV 25A Surge (data ports)
Railway And Rolling Stock	• EN50121-1 • EN50121-4 • EN61373 (for trackside use)
Wi-Fi Alliance	• Wi-Fi CERTIFIED™ a, b, g, n, ac • WPA™ — Enterprise, Personal • WPA2™ — Enterprise, Personal • Optimization — WMM®

WARRANTY: Sold with a limited one year warranty.

WI-FI

Standards	• 5 GHz IEEE 802.11ac • 2GHz IEEE 802.11g/n
Frequency Bands	• IEEE 802.11g/n 2.4-2.472GHz (ch1-13 CE, ch1-11 US) • IEEE 802.11ac 5GHz • U-NII-1 5.15-5.25 GHz • U-NII-2 5.25-5.35 (DFS) • U-NII-2B 5.37-5.475 • U-NII-2C 5.47-5.725 (DFS) • U-NII-3 5.725-5.825 • ISM 5.725 – 5.875 • U-NII-4 5.85-5.9255
Wlan Radio Configuration	• Dual band concurrent 2 x 2:2 stream radios
Maximum Tx Power [1]	• 26 dBm for 2.4GHz • 25 dBm for 5.0GHz
Channelization	• 2.4GHz 802.11b/g/n 20/40MHz • 5GHz 802.11a/n/ac 20/40/80MHz
Bssid	• Up to 32 (27 configurable) on 2.4GHz • Up to 16 (13 configurable) on 5GHz
Certifications [4]	• U.S., Europe, Argentina, Australia, Brazil, Canada, Chile, China, Colombia, Costa Rica, Hong Kong, India, Indonesia, Israel, Japan, Korea, Malaysia, Mexico, Peru, Philippines, Russia, Saudi Arabia, Singapore, South Africa, Taiwan

[1] Max power varies by country setting, band, and MCS rate
[2] BeamFlex+ gains are statistical system-level effects (including TxBF), translated to enhanced SINR based on observations over time in real-world conditions with multiple APs and many clients
[3] Rx sensitivity varies by band, channel width, and MCS rate
[4] Refer to price list for current country certifications
[5] With future software release

PERFORMANCE AND CAPACITY

Physical Layer Modulation Data Rate	• 2.4GHz 802.11b/g/n 300Mbps • 5GHz 802.11a/n/ac 867Mbps
Concurrent Stations	• Up to 512 capable per AP
Simultaneous Voip Clients	• Up to 30

PRODUCT ORDERING INFORMATION

MODEL	DESCRIPTION
T300 Outdoor APs	
901-T300-XX01* (XX = US, WW)	T300, omni, outdoor access point, 802.11ac 2x2:2 internal BeamFlex+ adaptive antenna technology, dual band concurrent, one ethernet port, PoE input, includes mounting bracket and one year warranty. Does not include PoE injector.
901-T300-XX-81**(XX = US, WW)	T300e, outdoor access point, 802.11ac 2x2:2 internal BeamFlex+ adaptive antenna technology 2GHz & 5GHz, external 5GHz N-female, dual band concurrent, one ethernet port, PoE input, includes mounting bracket and one year warranty. Does not include PoE injector or external 5GHz antenna.
Optional Accessories	
902-0162-XXYY	• Spare, PoE Adapter, 10/100/1000BaseT, with xx power adapter
902-0182-0003	• Spare, Outdoor Mounting Bracket, AnyAngle
911-2101-DP01	• 5 GHz dual polarized high gain 21 dBi directional antenna
911-2401-DP01	• 5 GHz dual polarized high gain 24 dBi directional antenna

*Requires ZoneDirector 9.8.1, SCG 2.5.1 or vSCG 3.0 or greater

PLEASE NOTE: When ordering outdoor APs, you must specify the destination region by indicating -US, -WW, or -Z2 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.
For access points, -Z2 applies to the following countries: Algeria, Egypt, Israel, Morocco, Tunisia, and Vietnam

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www.amt.com

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