

MANAGED WIFI

# Ruckus Zoneflex™ T300

802.11AC SMART WIFI OUTDOOR ACCESS POINTS



Lightpath's wireless portfolio includes a family of 802.11n and 802.11ac high-performance Access Points (APs) that are a perfect fit for enterprises of all sizes, including educational institutions, retail, hospitality, and healthcare providers who are looking to move their organizations to a pervasive mobility environment.

## High Capacity, High Performing Outdoor Access Points

The ZoneFlex T300 Series are the first dual-band 802.11ac outdoor access points (APs) designed explicitly for high density public venues such as airports, conventions centers, plazas & malls, and other dense urban environments.

These environments require support for users that demand high capacity and mobile device ready WLAN services. The T300 is uniquely designed to serve these demanding environments with dual-polarized adaptive antennas that dynamically select the best antenna patterns on a per packet basis to provide reliable client connections and to increase network capacity while implicitly mitigating interference and improving signal-to-interference-plus-noise ratio (SINR).

In addition, the T300 Series uniquely leverages a predictive model for channel selection (ChannelFly) that uses actual activity to learn what channels will yield the most capacity to provide the highest client speeds and reduced interference.

Designed for easy installation within an ultra-lightweight and low profile enclosure, the T300 Series is ideal for venue owners and enterprises looking to quickly and economically deploy WiFi in high-capacity environments.

With the T300, venue operators can now deliver an enhanced WiFi experience, which directly translates into increased customer loyalty and ultimately increased revenue.

## Benefits:

### **High speed client performance with integrated adaptive antennas**

Patented BeamFlex technology greatly improves connection reliability and increases WLAN capacity

### **Light, slim design for easy deployment**

Compact, lightweight design with integrated antennas provide flexible deployment options with quick and easy installation

### **Highly Scalable**

The ability to cost effectively scale high density networks

### **Predictive channel selection for increased capacity and reduced interference**

ChannelFly automatically selects the best performing channel based on statistical, real-time capacity analysis of all RF channels

### **Standard 802.3af power**

Easy installation using standard 802.3af PoE switches or PoE injectors

### **Unmatched Wi-Fi capacity and reliability**

BeamFlex delivers up to 4 dB of added signal gain and up to 10dB of interference mitigation

### **Enhanced receive capabilities**

Support for signal polarization diversity with maximal ratio combining(MRC) ensures reliable connectivity for mobile devices

## Features:

- Concurrent dual-band (5GHz/2.4GHz) support
- 1167 Mbps of total WLAN RF capacity
- BeamFlex+ 2 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 +55°C
- Adjustable bracket included
- Small, lightweight, and sleek form factor
- Standalone or centrally managed by ZoneDirector, SCG 200, or FlexMaster
- Dynamic, per-user rate-limiting for hotspot WLANs
- Intelligent Band steering
- Airtime fairness

# Specifications:

Hardware		Certification Specs	
Power	802.3af PoE Input (Class 3 PD)	Transportation	ISTA 2A: <ul style="list-style-type: none"> <li>• Random Vibration &amp; Drop Test</li> <li>• Compression &amp; Loose Cargo Test</li> </ul> ETSI EN 300 019-2-2 Specification T 2.2 <ul style="list-style-type: none"> <li>• Careful transportation</li> </ul>
Physical Size	7" x 5.9" x 3.4" (18cm x 15cm x 8.6cm)	Safety	<ul style="list-style-type: none"> <li>• Safety Listing - EU</li> <li>• EN 60950-1:2006/A12:2011</li> <li>• EN 60950-22:2006/AC:2008</li> <li>• International</li> <li>• CB Scheme Certificate</li> <li>• CB Bulletin</li> <li>• IEC 60950-1: 2005 Second Edition</li> <li>• IEC 60950-22: 2005 First edition</li> <li>• CISPR 22</li> <li>• CISPR 24</li> <li>• CAN/CSA C22.2 60950-1 Edition 2</li> <li>• CAN/CSA C22.2 60950-22 Edition 1</li> </ul>
Weight	2.1 lbs (1 kg) with bracket 2 lbs (0.9 kg) without bracket Ethernet Ports 10/100/1000Base-T 802.3,802.3u, 802.3ab802.3at/af PoE PD Input Jumbo frame support (2290 byte max MTU) RF Connectors N female qty 2 (optional 5GHz only)	Health & Human Safety to RF Exposure	EN 62311:2008 EN 50385:2002 FCC OET-65 ICNIRP:2010
Environmental Conditions	Operating temperature: -20°C to +65°C Weather protection: IP67 per IEC 60529	Hazardous Materials	RoHS Directive 2002/95/EC RoHS Directive 2011/65/EU WEEE
Power Draw	PoE Input <ul style="list-style-type: none"> <li>• Idle: 6.5W</li> <li>• Typical: 7.5W</li> <li>• Peak: 11W</li> </ul>	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)
Mounting Options	Wall Mount Pole Mount Diameter 1" to 2.5"	WiFi Alliance	WiFi CERTIFIED™ a, b, g, n, ac WPA™ — Enterprise, Personal WPA2™ — Enterprise, Personal Optimization — WMM®
WiFi		Performance & Capacity	
Standards	5 GHz IEEE 802.11ac 2GHz IEEE 802.11g/n	Physical Layer	2.4GHz 802.11b/g/n 300Mbps
Frequency Bands	IEEE 802.11g/n 2.4-2.472GHz (ch1-13 CE, ch1-11US) 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 5.85-5.925 5	Modulation Data Rate	5GHz 802.11a/n/ac 867Mbps
WLAN Radio Configuration	Dual band concurrent 2 x 2:2 stream radios	Concurrent Stations	Up to 500 capable per AP
Maximum TX Power <sup>1</sup>	26 dBm for 2.4GHz 25 dBm for 5.0GHz	Simultaneous VoIP Clients	Up to 30
Channelization	2.4GHz 802.11b/g/n 20/40 MHz 5GHz 802.11a/n/ac 20/40/80 MHz		
BSSID	Up to 32 (27 configurable) on 2.4 GHz Up to 16 (13 configurable) on 5 GHz		
Certifications	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		

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

© 2016, Ruckus Wireless, Inc. All rights reserved. Ruckus Wireless and Ruckus Wireless design are registered in the U.S. Patent and Trademark Office. Ruckus Wireless, the Ruckus Wireless logo, BeamFlex, ZoneFlex MediaFlex, MetroFlex, FlexMaster, ZoneDirector, SpeedFlex, SmartCast, and Dynamic PSK are trademarks of Ruckus Wireless, Inc. in the United States and other countries. All other trademarks mentioned in this document or Website are the property of their respective owners. June 2016 Subject to change without notice.