



## data sheet

### BENEFITS

#### Unleash the performance

In the Unleashed version, the ZoneFlex T300 series is capable of supporting controller-less deployments for up to 25 access points and 512 concurrent clients

#### 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 (PD-MRC) ensures reliable connectivity for mobile devices

# ZoneFlex™ T300 Series Unleashed

## 802.11AC SMART WIFI OUTDOOR ACCESS POINTS

### High Capacity, High Performing Outdoor Access Points

The ZoneFlex T300 Series Unleashed enable controller-less Wi-Fi architecture for small business environments with superior performance, lower costs and simplified management. Separate controllers and access point licenses are no longer needed, significantly reducing upfront costs. Set up is also easy, thanks to a simplified web interface that helps businesses configure Wi-Fi in just 60 seconds.

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 Wi-Fi in high-capacity environments.

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

# ZoneFlex™ T300 Series Unleashed

## DUAL-BAND SMART WI-FI OUTDOOR APs

### ZoneFlex T300



**Dual-band 802.11ac 2:2x2, 1200 Mbps**

Internal omni directional antenna for 2.4GHz and 5GHz

- Well suited to high-density deployments
- Best for omni coverage and high capacity

### ZoneFlex T300e



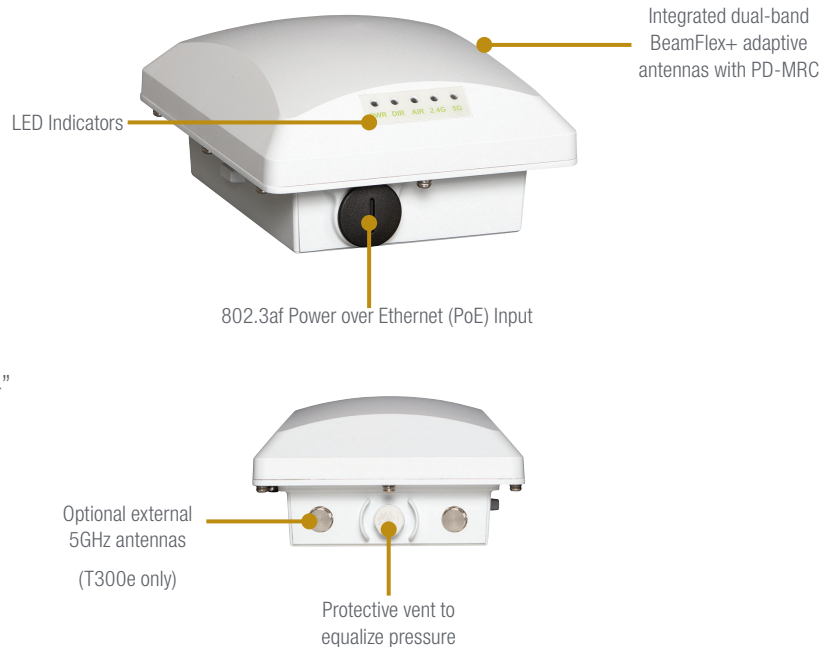
**Dual-band 802.11ac 2:2x2, 1200 Mbps**

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 SmartMesh\*\*

### FEATURES

- Concurrent dual-band (5GHz/2.4GHz) support
- 1200 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 +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
- WPA-PSK (AES), 802.1X support for RADIUS and Active Directory
- BYOD, Zero-IT, and Dynamic PSK
- Captive portal and guest accounts
- Admission control/load balancing
- Band balancing
- Application recognition and control
- Secure HotSpot
- SPOT location services
- Intelligent Band steering
- Airtime fairness
- SmartMesh
- Smart QoS



## Specifications

PHYSICAL CHARACTERISTICS	
<b>POWER</b>	<ul style="list-style-type: none"> <li>802.3af PoE Input (Class 3 PD)</li> </ul>
<b>PHYSICAL SIZE</b>	<ul style="list-style-type: none"> <li>7" x 5.9" x 3.4" (18cm x 15cm x 8.6cm)</li> </ul>
<b>WEIGHT</b>	<ul style="list-style-type: none"> <li>2.1 lbs (1 kg) with bracket</li> <li>2 lbs (0.9 kg) without bracket</li> </ul>
<b>ETHERNET PORTS</b>	<ul style="list-style-type: none"> <li>10/100/1000Base-T 802.3, 802.3 u, 802.3ab</li> <li>802.3at/af PoE PD Input</li> <li>Jumbo frame support (2290 byte max MTU)</li> </ul>
<b>RF CONNECTORS</b>	<ul style="list-style-type: none"> <li>N female qty 2 (optional 5GHz only)</li> </ul>
<b>ENVIRONMENTAL CONDITIONS</b>	<ul style="list-style-type: none"> <li>Operating temperature range: -20°C to 55° C</li> <li>Weather protection: IP67 per IEC 60529</li> </ul>
<b>POWER DRAW</b>	<ul style="list-style-type: none"> <li>PoE Input                             <ul style="list-style-type: none"> <li>Idle: 6.5W</li> <li>Typical: 7.5W</li> <li>Peak: 11W</li> </ul> </li> </ul>
<b>MOUNTING OPTIONS</b>	<ul style="list-style-type: none"> <li>Wall Mount</li> <li>Pole Mount Diameter 1" to 2.5"</li> </ul>
CERTIFICATION SPECS	
<b>TRANSPORTATION</b>	<ul style="list-style-type: none"> <li>ISTA 2A:                             <ul style="list-style-type: none"> <li>Random Vibration &amp; Drop Test</li> <li>Compression &amp; Loose Cargo Test</li> </ul> </li> <li>ETSI EN 300 019-2-2 Specification T 2.2 Careful transportation</li> </ul>
<b>SAFETY</b>	<ul style="list-style-type: none"> <li>Safety Listing - EU                             <ul style="list-style-type: none"> <li>EN 60950-1:2006/A12:2011</li> <li>EN 60950-22:2006/AC:2008</li> </ul> </li> <li>International                             <ul style="list-style-type: none"> <li>CB Scheme Certificate</li> <li>CB Bulletin</li> </ul> </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>
<b>HEALTH AND HUMAN SAFETY TO RF EXPOSURE</b>	<ul style="list-style-type: none"> <li>EN 62311:2008</li> <li>EN 50385:2002</li> <li>FCC OET-65</li> <li>ICNIRP:2010</li> </ul>
<b>HAZARDOUS MATERIALS</b>	<ul style="list-style-type: none"> <li>RoHS Directive 2002/95/EC</li> <li>RoHS Directive 2011/65/EU</li> <li>WEEE</li> </ul>
<b>IMMUNITY</b>	<ul style="list-style-type: none"> <li>EN61000-4-2 Level 4 Contact / Level 3 Air ESD Immunity</li> <li>EN61000-4-5 Level 1 &amp; 2 Immunity</li> <li>EN61000-4-3 Level 4 EMC Immunity</li> <li>GR1089 - 1kV 25A Surge (data ports)</li> </ul>
<b>RAILWAY AND ROLLING STOCK</b>	<ul style="list-style-type: none"> <li>EN50121-1</li> <li>EN50121-4</li> <li>EN61373 (for trackside use)</li> </ul>
<b>Wi-Fi ALLIANCE</b>	<ul style="list-style-type: none"> <li>Wi-Fi CERTIFIED™ a, b, g, n, ac</li> <li>WPA™ — Enterprise, Personal</li> <li>WPA2™ — Enterprise, Personal</li> <li>Optimization — WMM®</li> </ul>

WI-FI	
<b>STANDARDS</b>	<ul style="list-style-type: none"> <li>5 GHz IEEE 802.11ac</li> <li>2GHz IEEE 802.11g/n</li> </ul>
<b>FREQUENCY BANDS</b>	<ul style="list-style-type: none"> <li>IEEE 802.11g/n 2.4-2.472GHz (ch1-13 CE, ch1-11 US)</li> <li>IEEE 802.11ac 5GHz                             <ul style="list-style-type: none"> <li>U-NII-1 5.15-5.25 GHz</li> <li>U-NII-2 5.25-5.35 (DFS)</li> <li>U-NII-2B 5.37-5.47<sup>6</sup></li> <li>U-NII-2C 5.47-5.725 (DFS)</li> <li>U-NII-3 5.725-5.825</li> <li>ISM 5.725 – 5.875</li> <li>U-NII-4 5.85-5.925<sup>5</sup></li> </ul> </li> </ul>
<b>WLAN RADIO CONFIGURATION</b>	<ul style="list-style-type: none"> <li>Dual band concurrent 2 x 2:2 stream radios</li> </ul>
<b>MAXIMUM TX POWER</b>	<ul style="list-style-type: none"> <li>26 dBm for 2.4GHz</li> <li>25 dBm for 5.0GHz</li> </ul>
<b>CHANNELIZATION</b>	<ul style="list-style-type: none"> <li>2.4GHz 802.11b/g/n 20/40 MHz</li> <li>5GHz 802.11a/n/ac 20/40/80 MHz</li> </ul>
<b>BSSID</b>	<ul style="list-style-type: none"> <li>Up to 32 (27 configurable) on 2.4 GHz</li> <li>Up to 16 (13 configurable) on 5 GHz</li> </ul>
<b>CERTIFICATIONS</b> <sup>4</sup>	<ul style="list-style-type: none"> <li>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</li> </ul>

<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

PERFORMANCE AND CAPACITY	
<b>PHYSICAL LAYER MODULATION DATA RATE</b>	<ul style="list-style-type: none"> <li>2.4GHz 802.11b/g/n 300Mbps</li> <li>5GHz 802.11a/n/ac 867Mbps</li> </ul>
<b>CONCURRENT STATIONS</b>	<ul style="list-style-type: none"> <li>Up to 512 clients per AP</li> </ul>
<b>SIMULTANEOUS VoIP CLIENTS</b>	<ul style="list-style-type: none"> <li>Up to 30</li> </ul>

## Product Ordering Information

MODEL	DESCRIPTION
<b>ZoneFlex T300 Unleashed Outdoor APs</b>	
<b>9U1-T300-XX01</b>	ZoneFlex T300 Unleashed, omni, outdoor access point, 802.11ac 2x2:2 internal BeamFlex+, dual band concurrent, one ethernet port, PoE input, includes mounting bracket and one year warranty. Does not include PoE injector.
<b>9U1-T300-XX81</b>	ZoneFlex T300e, outdoor access point, 802.11ac 2x2:2 internal BeamFlex+ 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.
<b>Power Accessories</b>	
<b>902-0162-XXYY</b>	Spare, PoE Adapter, 10/100/1000BaseT, with xx power adapter
<b>902-0182-0003</b>	Spare, Outdoor Mounting Bracket, AnyAngle
<b>911-2101-DP01</b>	5 GHz dual polarized high gain 21 dBi directional antenna
<b>911-2401-DP01</b>	5 GHz dual polarized high gain 24 dBi directional antenna

\*Requires ZoneFlex 9.8.1, SCG 2.5.1, or vSCG 3.0

\*\*Requires ZoneFlex 9.9, SCG 2.6 or vSCG 3.0

