ZoneFlex T300
Entry-Level 802.11ac Outdoor Access Points

DATA SHEET

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 4dB 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

802.11AC AP WITH BEAMFLEX+ FOR COST-EFFECTIVE DEPLOYMENTS IN HIGH DENSITY OUTDOOR VENUES

The T300 Series are 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.

The ZoneFlex T300 Series can be centrally managed by a ZoneDirector or SmartZone controller as part of a unified indoor/outdoor wireless LAN, deployed as a standalone AP and managed individually, or through the FlexMaster remote Wi-Fi management system.

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

DUAL-BAND 802.11AC 2:2X2, 1167 MBPS
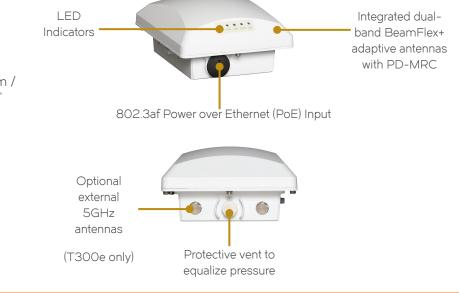
Internal omni directional antenna for 2.4GHz and 5GHz

- Well suited to high-density deployments

Best for omni coverage and high capacity

ZONEFLEX T300E

DUAL-BAND 802.11AC 2:2X2, 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**

FEATURES

- 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
- 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

** when used with Ruckus ZoneDirector or SmartZone controllers.

15 cm / 5.9"

18 cm / 7"

8.6 cm / 3.4"

PWR DIR AIR 2.4G 5G

.9 kg

LED Indicators

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

802.3af Power over Ethernet (PoE) Input

Optional external 5GHz antennas

(T300e only)

Protective vent to equalize pressure

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
ZoneFlex T300 Outdoor APs	
901-T300-XX01* (XX = US, WW)	ZoneFlex T300, 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.
901-T300-XX-81**(XX = US, WW)	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.
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 ZoneFlex 9.8.1, SCG 2.5.1 or vSCG 3.0 or greater

PLEASE NOTE: When ordering ZoneFlex 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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