

# Wireless Access Point

Model: Ruckus 7300 Series



## HIGH PERFORMANCE 802.11N MID RANGE SMART WI-FI ACCESS POINTS WITH DYNAMIC BEAMFORMING

The Ruckus ZoneFlex 7300 series delivers high-performance and reliable 802.11n wireless networking at the industry's most affordable price point.

## FAST DELIVERY OVER 802.11n WIRELESS

Unlike any other 802.11n wireless solution in its class, the ZoneFlex 7300 combines patented dynamic beamforming and automatic interference mitigation to deliver consistent, predictable performance at extended ranges with 4dBi of signal gain and 10dB of interference rejection.

## INCREASED WIRELESS RANGE MEANS LESS ACCESS POINTS

The ZoneFlex 7300 delivers a two to four fold increase in signal range with lower packet error rates while reducing the number of APs required to deliver dependable Wi-Fi service.

Each ZoneFlex 7300 integrates Ruckus-patented BeamFlex, a software-controlled, high gain antenna array that continually forms and directs each 802.11n packet over the best performing signal path. And because the ZoneFlex 7300 automatically adapts to environmental changes, once deployed, enterprises never have to worry about constant site surveys as the environment changes.

## SLEEK EASILY DEPLOYABLE DESIGN

A sleek and low-profile design, the ZoneFlex 7300 was purpose-built for cost-minded enterprises requiring reliable high speed client connectivity. It is ideal for a variety of enterprise and hotspot environments including hotels, schools, retail outlets, branch offices and public venues.

## DUAL BAND AND POE FLEXIBILITY

Offered in single and dual band models, the ZoneFlex 7300 series can be deployed as a standalone access point or as part of the centrally-controlled Smart Wireless LAN with Europacom ACS. The ZoneFlex 7300 can also be easily deployed using Smart Mesh Networking to extend Wi-Fi services in locations where Ethernet cabling is not available or cost prohibitive.

Standard 802.3af power over Ethernet (PoE) leverages existing PoE switches eliminating costly and cumbersome upgrades.

## KEY BENEFITS:

- **Best-in-class mid-range performance at lowest cost**
  - Unprecedented price/performance with extended range at an affordable price point for both single and dual-band
- **Extended range requires fewer APs**
  - Dynamic beamforming delivers a 2 to 4 times increase in Wi-Fi signal coverage minimising the number of APs required to service any area
- **Wire-like wireless reliability**
  - Patented smart antenna array, beamforming and Quality of Service technologies combine to avoid interference and minimize packet loss
- **Sleek, low profile enclosure for ease-of-deployment**
  - Aesthetically-pleasing design fits almost anywhere
- **Super simple configuration and management**
  - Simple configuration and management through a Web-based wizard and automated deployment capabilities
- **Flexible deployment options**
  - Standalone or controller-based deployment
- **Smart wireless meshing**
  - When used with Europacom ACS, the ZoneFlex 7300 easily extends Wi-Fi services to areas where Ethernet cabling isn't available, possible or cost effective
- **Investment protection for legacy Wi-Fi networks**
  - Compatible with existing wireless investments, the ZoneFlex 7300 series enhances performance and range for legacy 802.11a/b/g clients
  - Support for standard 802.3af power over Ethernet allows enterprises to use existing PoE switches without costly upgrades
- **Multiple Ethernet ports**
  - Three Ethernet ports enable connectivity of wired devices such as printers, registers, VoIP phones, servers, etc.

## FEATURES

- Single (2.4GHz) and dual-band (5GHz/2.4GHz) options\*
- Dynamic beamforming and advanced RF management
- Up to 4dBi signal gain / 10dB interference rejection
- Automatic interference avoidance, optimized for high-density environments
- Integrated smart antenna array with over 300 unique patterns for high reliability
- Standard 802.3af Power over Ethernet (PoE)
- 2 to 4 times extended range and coverage
- IP multicast video streaming support
- Four queues per client station
- Advanced QoS packet classification and automatic priority for latency-sensitive traffic
- Band steering\* and airtime fairness support
- Up to 8 BSSIDs per radio with unique QoS and security policies
- WEP, WPA-PSK (AES), 802.1X support for RADIUS
- Active Directory when used with Europacom ACS
- Smart Mesh Networking when used with Europacom ACS
- Admission control/load balancing when used with Europacom ACS
- Captive portal and guest accounts when used with Europacom ACS
- Wall, desktop or ceiling mountable

PHYSICAL CHARACTERISTICS	
Power	External power adapter Input: 110-240V AC Output: 12V DC, 1.5A Power over Ethernet Class 0
Physical Size	17.8cm (L), 17.8cm (W), 3.6cm (H)
Weight	397 grams (0.875 lbs.)
Antenna	Internal software-configurable antenna that provides over 300 unique patterns
Ethernet Ports	1 auto MDX, auto-sensing 10/100/1000 Mbps, RJ-45, POE port 2 auto MDX, auto-sensing 10/100 Mbps, RJ-45 ports
Environmental conditions	Operating Temperature: 0°C - 40°C Operating Humidity: 15% - 95% non-condensing
Power draw	ZF7363: 12.95W (PoE), 12W (12V DC) ZF7343: 9W (PoE), 9W (12V DC)
PERFORMANCE AND SUPPORTED CONFIGURATIONS	
Concurrent stations	200+ (100+/radio)
Target UDP throughput	150 Mbps sustainable throughput for a 5,000sq.ft area for each radio for each band
Vo-Fi clients	Up to 20 simultaneously
TRAFFIC MANAGEMENT AND QUALITY OF SERVICE	
Classes of service	Voice, video, best effort and background
Software queues	Four per station
802.11e	Supported
Automatic traffic classification	Automatic prioritization of VoIP and video traffic
Advanced QOS	Rate limiting, band steering and airtime fairness
VLAN support	802.1Q
Heuristic classification	Supported
DEPLOYMENT	
Options	Individually managed Managed via Europacom ACS
MANAGEMENT	
Configuration	Web user interface, CLI (Telnet), SSH HTTP/S, SNMP via Europacom ACS
Statistics	LAN, Wireless and associated stations accessible via Web GUI
Auto AP software updates	FTP or TFTP auto available
WIFI	
Standards	IEEE 802.11a/b/g/n, 2.4GHz
Supported data rates	802.11n: 6.5Mbps – 130Mbps (20Mhz) , 6.5Mbps – 300Mbps (40MHz) 802.11a: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps 802.11b: 1, 2, 5.5 and 11Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps
Radio chains	2 x 2
Spatial streams	2
Channelization	20MHz and/or 40MHz
FR Power output	26 dBm for 2.4GHz, 24 dBm for 5GHz (7363 model only). Country-specific power settings are configurable
Operating channels	US/Canada: 1-11, EU (ETSI X30): 1-13. Channel availability is country dependent according to the local regulations
BSSID	Up to 8 per radio (dual radio therefore 16)
Wireless Security	WEP, WPA-PSK, WPA-TKIP, WPA2 AES,802.11i Authentication via 802.1X with Europacom ACS local authentication database support for RADIUS, LDAP, and Active Directory