Ruckus
Simply Better Wireless.

data sheet

PTS
DATA CENTER SOLUTIONS
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BENEFITS

Best-in-class mid-range performance at lowest cost
Unprecedented price/performance with extended range at the industry's most affordable price point for both single and dual-band

Extended range requires fewer APs
Adaptive antenna technology delivers a 2x to 4x increase in Wi-Fi signal coverage minimizing the number of APs required to service any area

Wire-like wireless reliability
Patented smart antenna array, adaptive antenna technology and Quality of Service technologies combine to mitigate interference and minimize packet loss

Channel selection optimizes throughput
ChannelFly dynamic management, based on through-put measurements, not just interference, chooses the best channel to give users the highest throughput

Super simple configuration and management
The industry's simplest 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 a ZoneDirector Smart WLAN controller, the ZoneFlex 7300 easily extends Wi-Fi services to areas where Ethernet cabling isn't available, possible or cost effective

Multiple Ethernet ports
Three Ethernet ports enable connectivity of wired devices such as printers, registers, VoIP phones, servers, etc.

ZoneFlex™ 7300 Series

SINGLE/DUAL-BAND 802.11N SMART WI-FI ACCESS POINTS

High Performance, 802.11n Mid-Range Smart Wi-Fi Access Points with Adaptive Antenna Technology

Unlike any other 802.11n wireless solution in its class, the ZoneFlex 7300 combines patented adaptive antenna technology and automatic interference mitigation to deliver consistent, predictable performance at extended ranges with up to an additional 4dB of BeamFlex gain on top of the 6 dBi physical antenna gain and 10dB of interference mitigation.

The ZoneFlex 7300 delivers a 2- to 4-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. The ZoneFlex 7300 automatically selects channels for highest throughput potential using Ruckus ChannelFly dynamic channel management, adapting to environmental changes. Once deployed, enterprises never have to worry about constant site surveys as the environment changes.

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.

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 the Ruckus ZoneDirector. 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.

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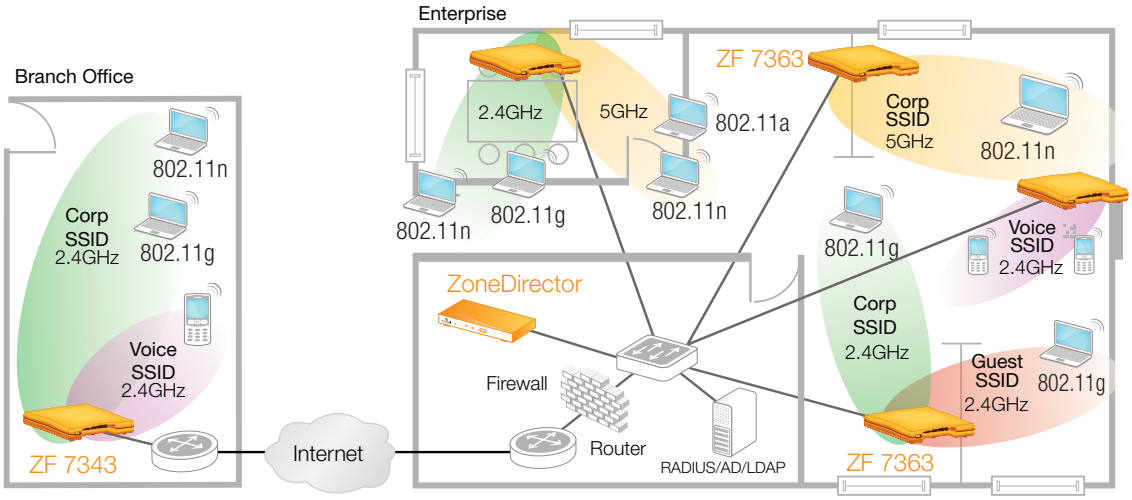
AFFORDABLE PERFORMANCE FOR ENTERPRISES

The ZoneFlex 7300 series integrates seamlessly with your existing network infrastructure, delivering best-in-class 802.11n performance and reliability at the industry's most affordable price - making it the ideal wireless solution for mid-range enterprise and branch office applications.



Patented BeamFlex™ Technology Extends Signal Range, Improves Stability of Client Connections

All ZoneFlex 7300 Smart Wi-Fi access points integrate a software-controlled smart antenna array that delivers up to an additional 4dB of BeamFlex gain and 10dB of interference mitigation. This allows a 2 to 4x improvement in signal range and a reduction in packet loss from the ability to automatically mitigate interference and avoid obstacles.

Advanced WLAN Applications with Smart/OS

When used with the Ruckus ZoneDirector Smart WLAN controller, each ZoneFlex 7300 supports a wide range of value-added applications such as guest networking, Smart Wireless Meshing, Dynamic PSK, hotspot authentication, wireless intrusion detection and many more. With Smart/OS, up to 2,048 discrete WLANs can be created and mapped to the same or different APs or VLANs. In a centrally managed configuration, the ZoneFlex 7300 works with a wide range of authentication servers including Microsoft's Active Directory, LDAP, and RADIUS.

Flexible Deployment Options

ZoneFlex 7300 APs can be deployed as a standalone AP or as part of a centrally managed wireless LAN using ZoneDirector Smart WLAN controllers. ZoneFlex 7300's can be deployed across any L2/L3 network and can bridge traffic onto the local network, tunnel to a central location using L2TP or PPPoE, or route between the WAN and NAT'ed private subnets. It can be wired to the network or connect wirelessly by meshing to another AP when Ethernet cabling is unavailable. When used with the ZoneDirector, each ZoneFlex 7300 is automatically configured through the network making deployment quick and easy.

Complete Local and Remote Management

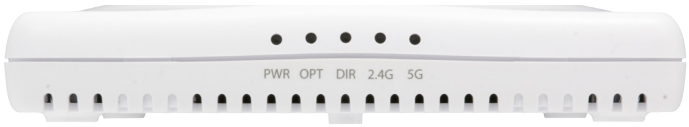
Each ZoneFlex 7300 can be managed as a standalone AP through a Web-based GUI, using SNMP or through the Ruckus FlexMaster Wi-Fi remote management system. Local management can also be performed using the ZoneDirector Smart WLAN controller. FlexMaster is a LINUX-based software platform that uses industry-standard protocols to perform bulk configuration, fault detection, monitoring and a wide range of troubleshooting capabilities over a wire area connection. The ZoneDirector enables local management and control of APs, adding value-added services such as transmit power control, guest networking and meshing.

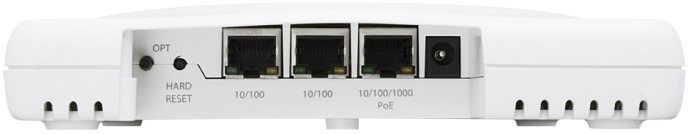
ZoneFlex™ 7300 Series

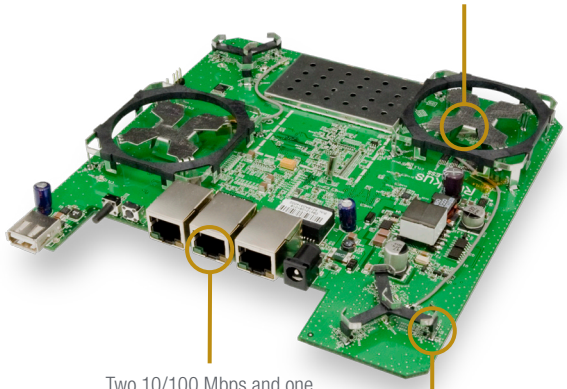
SINGLE/DUAL-BAND 802.11N SMART WI-FI ACCESS POINTS

FEATURES

- Single (2.4GHz) and dual-band (5GHz/2.4GHz) options*
- Adaptive antenna technology and advanced RF management
- Up to an additional 4dB BeamFlex gain / 10dB interference mitigation / 6 dBi physical antenna gain
- Automatic interference mitigation, optimized for high-density environments
- Integrated smart antenna array with over 300 unique patterns for high reliability
- Standard 802.3af Power over Ethernet (PoE)
- Router mode with NAT and DHCP services
- 2 to 4 times extended range and coverage
- IP multicast video streaming support
- Up to 8 BSSIDs per radio with unique QoS and security policies
- Advanced QoS packet classification and automatic priority for latency-sensitive traffic
- Dynamic, pre-user rate-limiting for hotspot WLANs
- WEP, WPA-PSK (AES), 802.1X support for RADIUS and Active Directory**
- Ethernet 802.1x port-based authentication (authenticator and supplicant)
- Smart Mesh Networking**
- Zero-IT and Dynamic PSK**
- Admission control/load balancing**
- Bandsteering* and airtime fairness
- Captive portal and guest accounts **
- Wall, desktop or ceiling mountable
- USB 2.0 port hardware option (special orders only)***
- Limited lifetime warranty







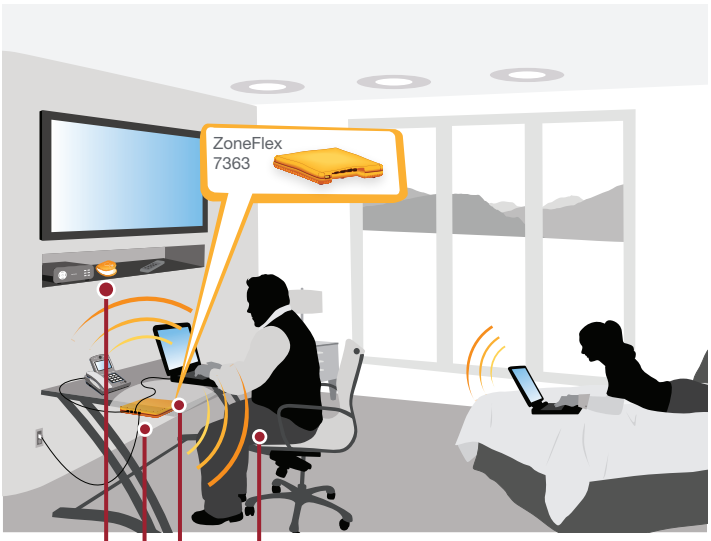
* ZoneFlex 7363 only
** when used with Ruckus ZoneDirector controller.
*** hardware build option with future software support

ZoneFlex™ 7300 Series

SINGLE/DUAL-BAND 802.11N SMART WI-FI ACCESS POINTS

IN-ROOM DEPLOYMENT FOR HOTELS

The ZoneFlex 7300 series is ideal for deployment in hotel guest rooms to provide wireless connection to high quality video and data access, as well as wired connections to IP phone and guest devices.



Dual-band (2.4/5GHz) support allows for concurrent Internet and IP-based video services

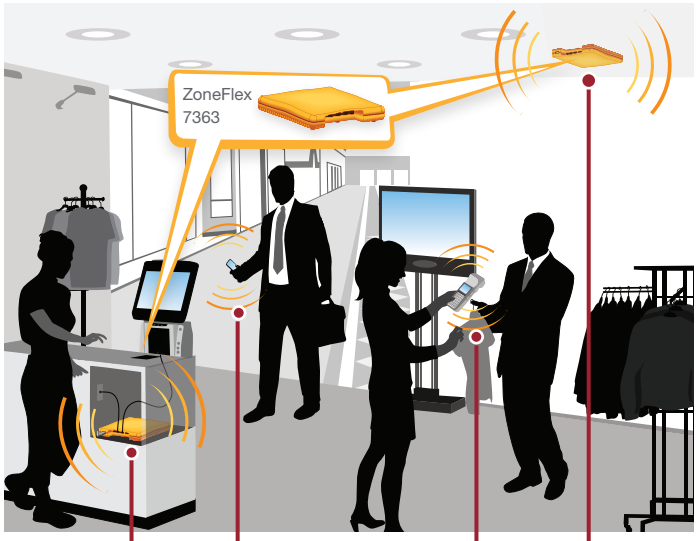
Sleek, elegant design easily concealed

Wired ports for connecting IP devices such as laptops and VoIP phones

Multiple SSIDs for high-speed Internet access and other services

DEPLOYMENT FOR RETAIL / BRANCH OFFICES

The ZoneFlex 7300 series is ideal for deployment in retail stores to provide inconspicuous wireless connection to high quality video, wireless IP phones and data access for handheld PoS bar code scanners.



Wired ports to connect devices such as cash registers, printers, etc.

Multiple SSIDs for differentiated user services (e.g., guest Wi-Fi, point of sale, voice)

Reliable Wi-Fi connectivity for point of sale devices

5GHz band and smart antenna system ideal for wireless meshing between APs

Specifications

PHYSICAL CHARACTERISTICS	

POWER	• External power adapter
	  • Input: 110-240V AC
	  • Output: 12V DC, 1.0A
	• Power over Ethernet Class 0

PHYSICAL SIZE	• 17.8cm (L), 17.8cm (W), 3.6cm (H)
WEIGHT	• 397 grams (0.875 lbs.)
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 (7343/7363 only)
LOCK OPTION	• Pad-lock & Kensington lock supported with optional mounting bracket (902-0166-0000) . Kensington Lock supported with low profile mounting bracket (902-0181-0000)
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)

RF	
ANTENNA	• ZF7363: Adaptive antenna array that provides up to 300+ unique antenna patterns • ZF7341/7343: Adaptive antenna array that provides 256 unique antenna patterns
MAXIMUM EIRP	• 2.4 GHz: Up to 29 dBm • ZF7363: 5 GHz: Up to 27 dBm
PHYSICAL ANTENNA GAIN	• ZF7341/7343: Up to 6 dBi (2.4 GHz) • ZF7363: Up to 6 dBi (2.4 and 5 GHz)
BEAMFLEX* SINR TX GAIN	• Up to 4 dB
INTERFERENCE MITIGATION	• Up to 10 dB
MINIMUM RX SENSITIVITY	• Up to -98 dBm

*BeamFlex gains are statistical system level effects translated to enhanced SINR here, and based on observations over time in real-world conditions with multiple APs and many clients

PERFORMANCE AND CAPACITY	
TARGET UDP THROUGHPUT	• 150-200 Mbps (300 Mbps bursts) sustainable throughput for a 5000 sq. foot (460 sq meter) area for each radio for each band
CONCURRENT STATIONS	• 256
SIMULTANEOUS VoIP CLIENTS	• Up to 20

MANAGEMENT	
DEPLOYMENT OPTIONS	• Standalone (individually managed) • Managed by ZoneDirector • Managed by FlexMaster
CONFIGURATION	• Web User Interface (HTTP/S) • CLI (Telnet/SSH), SNMP v1, 2, 3 • TR-069 vis FlexMaster
AUTO AP SOFTWARE UPDATES	• FTP or TFTP, remote auto available

WI-FI	
STANDARDS	• IEEE 802.11a/b/g/n* • 2.4GHz and 5GHz*
SUPPORTED DATA RATES	• 802.11n: 6.5Mbps – 130Mbps (20MHz) 6.5Mbps – 300Mbps (40MHz) • 802.11a: 54, 48, 36, 24, 18, 12, 9 and 6Mbps* • 802.11b: 11, 5.5, 2 and 1 Mbps • 802.11g: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps
RADIO CHAINS	• 2 x 2
SPATIAL STREAMS	• 2
RF POWER OUTPUT	• 26 dBm for 2.4GHz† • 24 dBm for 5GHz*†
CHANNELIZATION	• 20MHz and/or 40MHz
FREQUENCY BAND	• IEEE 802.11n: 2.4 – 2.484 GHz and 5.15 – 5.85 GHz* • IEEE 802.11a: 5.15 – 5.85 GHz* • IEEE 802.11b: 2.4 – 2.484 GHz
OPERATING CHANNELS	• US/Canada: 1-11 • Europe (ETSI X30): 1-13 • Japan X41: 1-13 • 5GHz channels: Country dependent for the following channel ranges: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 149, 153, 157, 161, 165
BSSID	• Up to eight per radio
POWER SAVE	• Supported
WIRELESS SECURITY	• WEP, WPA-PSK, WPA-TKIP, WPA2 AES, 802.11i • Authentication via 802.1X with the ZoneDirector, local authentication database, support for RADIUS, LDAP, and ActiveDirectory
CERTIFICATIONS	• U.S., Europe, Australia, Brazil, Canada, Chile, Hong Kong, India, Israel, Japan, Korea, Mexico, New Zealand, Philippines, Saudi Arabia, Singapore, South Africa, Taiwan, Thailand, UAE, Vietnam • WEEE/RoHS compliance • EN-60601-1-2 • Wi-Fi Alliance

*5GHz functionality is only available with ZoneFlex 7363
† Maximum power varies by country

Product Ordering Information

MODEL	DESCRIPTION
ZoneFlex 7300 Series Smart Wi-Fi 802.11n Access Points	
901-7363-XX00	Concurrent dual band 802.11n AP (includes cable cover), no power adapter, mounting screws/anchor
901-7343-XX00	Single band 802.11n AP (includes cable cover), no power adapter, mounting screws/anchors
901-7341-XX00	Single band 802.11n 1-port AP, no power adapter. Does not include mounting screws/anchors
Optional Accessories	
902-0181-0001	Slim drop ceiling, ceiling, wall locking mount kit (1 unit, minimum order quantity of 5)
902-0166-0000	Metal drop ceiling, ceiling, wall locking mount kit
902-0162-XXYY	PoE injector (sold in quantities of 10 or 100)
902-0172-XX10	Power Supply (Qty. 10)
902-0152-XX01	Power Supply (Qty. 60)

PLEASE NOTE: When ordering ZoneFlex Indoor APs, you must specify the destination region by indicating -US, -IL, or -WW 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.

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