



data sheet

BENEFITS

Best in class channel selection technology

ChannelFly dynamic channel management, based on throughput measurements, not just interference, chooses the best channel to give users the highest throughput

Environmentally hardened with AC power

Enables fast and easy mounting to street lights, traffic controls and other street furniture. Includes hardened enclosures for outdoor deployment with IP-67 rated enclosure

Unified, centralized Wi-Fi management eases administration

ZoneDirector and/or FlexMaster provide a detailed view into and control over both indoor and outdoor Smart Wi-Fi APs enabling seamless and system-wide administration of the entire wireless environment including carrier grade 3GPP, I-WLAN core networks and future 4G/LTE core

Unmatched Wi-Fi range and reliability

Adaptive antenna technology combined with unique interference mitigation technology delivers up to 6 dB of added signal gain and up to 15 dB of interference mitigation and support for up to 500 clients in the AC

Enables a myriad of new services and service opportunities

Smart Wi-Fi applied outdoors now enables new revenue-generating services such as community Wi-Fi, IP-video applications, multimedia hotspots, extended WLAN services outdoors and wireless backhaul for small cell cluster, and mobile data offload

ZoneFlex[™] 7762 Series

DUAL-BAND 802.11N SMART WI-FI OUTDOOR AP

World's First Concurrent 2.4/5GHz 802.11n Access Point with Adaptive Antenna Technology and Smart Wi-Fi Meshing

The ZoneFlex 7762 Series is the first dual-band 802.11n outdoor access point (AP) to integrate adaptive antenna technology to enable much longer range signals, better signal penetration inside buildings, and more resilient mesh connections that automatically adapt to interference and changing environmental conditions.

Supporting advanced Smart Mesh Networking, the Ruckus ZoneFlex 7762 Series is perfect for service providers looking to quickly and economically expand branded broadband services, offload data traffic from congested 3G networks, deploy multimedia hotspots or offer wireless broadband services where fixed line access is limited. Separate radios for access and backhaul traffic deliver high-throughput to clients throughout the mesh network.

The ZoneFlex 7762 Series is also ideal for hotels, resorts, multi-dwelling units, schools, warehouses and other enterprises needing to deliver broadband access from the outside in or to extend managed wireless LANs (WLANs) outdoors where Ethernet cabling is not possible.

The ZoneFlex 7762 Series can be centrally managed by the ZoneDirector Smart WLAN controller as part of a unified indoor/outdoor wireless LAN or deployed as a standalone AP and managed individually or through the FlexMaster remote Wi-Fi management system.

The ZoneFlex 7762 Series implements Ruckus-patented BeamFlex[™] smart antenna technology that enables consistent, high-performance, extended coverage and multimedia support. Ruckus ChannelFly dynamic channel management optimizes client throughput by selecting the best channel to operate on. A Web-based wizard allows any computer user to configure ZoneFlex 7762 Series through the ZoneDirector[™] — creating a secure and sophisticated WLAN in a matter of minutes.

ZoneFlex[™]7762 Series

DUAL-BAND 802.11N SMART WI-FI OUTDOOR AP

ZoneFlex 7762



Dual-band 802.11n 3:3x2, 600 Mbps

Smart antenna for 2.4/5 GHz 19 elements, +4000 patterns 360° coverage, optional external 5 GHz antennas

- Optimized for enterprise apps
- Ideal for dual-band environments (e.g., most clients are laptops)

ZoneFlex 7762-S



Dual-band 802.11n 3:3x2, 600 Mbps

Smart antenna for 2.4 GHz 12 elements, 24 patterns, 120° coverage, 5 GHz external antennas

- · Optimized for 3G offload
- Best 2.4 GHz coverage and capacity at 120°
- Ideal for poles, exterior walls

ZoneFlex 7762-T



Dual-band 802.11n 3:3x2, 600 Mbps

Smart antenna for 2.4 GHz 12 elements, +4000 patterns, 360° coverage, 5 GHz external antennas

- Optimized for 3G offload
- Ideal for poles, street corners, areas where
 3 APs cannot be mounted
- Concurrent dual-band (5 GHz/2.4 GHz) support
- Adaptive antenna technology and advanced RF management
- Up to 6 dB signal gain / 15 dB interference mitigation
- Automatic interference avoidance, optimized for high-density environments
- Integrated smart antenna array with up to 4,000 unique patterns for ultra reliability
- Standard 802.3af/at Power over Ethernet (PoE)
- Ruckus custom high power PoE injector available
- Standard 802.3af output for surveillance cameras
- Wall, pole or ceiling mountable
- Built-in heater for cold climate (-40° C)
- Multicast IP video streaming
- 600 Mbps of user throughput (300 Mbps/radio)

ZoneFlex 7762-AC, ZoneFlex 7762-S-AC



Dual-band 802.11n 3:3x2, 600 Mbps

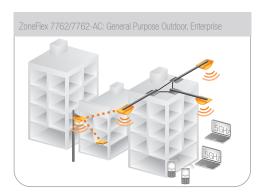
Smart antenna for 2.4 GHz 12 elements, +4000 patterns, 360° coverage, 5 GHz external antennas

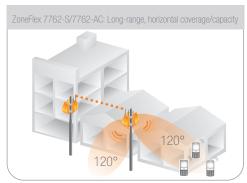
- · Optimized for 3G offload
- Ideal for poles, street corners, areas where 3 APs cannot be mounted
- AC power for flexible deployment
- 16 BSSIDs with unique QoS and security policies
- Advanced QoS packet classification and automatic priority for latency-sensitive traffic
- Dynamic, per-user rate-limiting for hotspot WLANs
- WEP, WPA-PSK (AES), 802.1X support for RADIUS and Active Directory*
- Smart Mesh Networking*
- Zero-IT and Dynamic PSK*
- Admission control/load balancing*
- Band steering and airtime fairness support
- Captive portal and guest accounts *
- *when used with Ruckus ZoneDirector controller

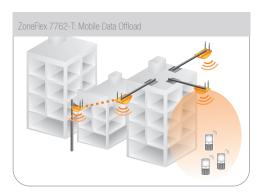
ZoneFlex[™]7762 Series

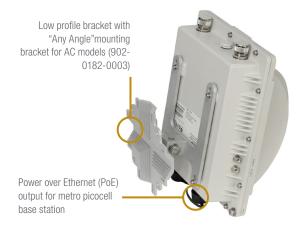
DUAL-BAND 802.11N SMART WI-FI OUTDOOR AP

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- First dual-band 802.11n smart outdoor AP with adaptive antenna array
- Designed for extreme conditions
- Smart channel selection
- Concurrent dual-band 802.11n
- 360° coverage
- 19 elements, +4000 patterns
- IP-67 rated, -40°C 65°C
- Standalone or centrally managed by ZoneDirector or FlexMaster
- First smart sector 802.11n AP
- Optimized for horizontal, long-range coverage and high-density user environments
- Smart channel selection
- Concurrent dual-band 802.11n
- 120° smart sector 2.4GHz antenna for longer range
- External 5GHz antennas
- IP-67 rated, -40°C 65°C
- Standalone or centrally managed by ZoneDirector or FlexMaster
- Smart antenna optimized for 2.4GHz
- 360° coverage
- 12 elements, +4000 patterns
- Smart channel selection
- 5GHz external antennas
- Concurrent dual-band 802.11n
- IP-67 rated, -40°C 65°C
- Managed by ZoneDirector and FlexMaster



Flexible mounting options including pole, ceiling or wall mounting (universal mounting bracket 902-0165-0000) for standard series models

Specifications (7762, 7762-S, 7762-T)

PHYSICAL CHARACTERISTICS	
POWER	Power over Ethernet and 12V DC
PHYSICAL SIZE	• 23.9 cm (L), 19.5 cm (W), 14.1 cm (H)
WEIGHT	• 1900 grams (4.19 lbs.)
ANTENNA	ZF 7762: Internal software-configurable dual band antenna array with directional and omni high-gain elements that provide over 4,000 unique antenna patterns ZF 7762-S: Internal software-configurable 2.4GHz antenna array with directional high-gain elements that provide over 24 unique antenna patterns (requires external antenna for 5 GHz operations) ZF 7762-T: Internal software-configurable 2.4GHz antenna array with directional and omni high-gain elements that provide over 4,096 unique antenna patterns (requires external antenna for 5 GHz operations)
ETHERNET PORTS	2 ports, auto MDX, auto-sensing RJ-45 10/100/1000 Mbps Power over Ethernet (802.3at) input 10/100 Mbps Power over Ethernet (802.3af) output
ENVIRONMENTAL CONDITIONS	IP-67 rated Operating air temperature: -40°C – 65° C (-40°F – 149°F), -20°C when heater disabled Operating humidity: 5% to 100% condensing
POWER DRAW	• 12.95W (PoE) • 15W (12V DC)

RF (7762, 7762-S)	
ANTENNA	Adaptive antenna array that provides 4,000+ unique antenna patterns (24 for the sectorized version)
PHYSICAL ANTENNA GAIN	 7762: 3 dBi (2.4 GHz) 7762: 5 dBi (5 GHz) 7762-S: 7 dBi (2.4 GHz) 7762-S: 5 dBi (5 GHz)
RF POWER OUTPUT**	28 dBm (2.4 GHz)26 dBm (5 GHz)
BEAMFLEX* SINR TX GAIN	• Up to 6 dB
BEAMFLEX* SINR RX GAIN	• Up to 4 dB
INTERFERENCE MITIGATION	• Up to 15 dB
MINIMUM RX SENSITIVITY	• Up to -95 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

multiple APs and many clients

** Maximum power varies by country

RF (7762-T)	
ANTENNA	Adaptive antenna array that provides 4,000+ unique antenna patterns
PHYSICAL ANTENNA GAIN	• 5 dBi (2.4 GHz) • 5 dBi (5 GHz)
RF POWER OUTPUT**	28 dBm (2.4 GHz) 26 dBm (5 GHz)
BEAMFLEX* SINR TX GAIN	Up to 6 dB
BEAMFLEX* SINR RX GAIN	Up to 4 dB
INTERFERENCE MITIGATION	• Up to 15 dB
MINIMUM RX SENSITIVITY	• Up to -95 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

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CAPACITY	
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

WI-FI	
STANDARDS	IEEE 802.11a/b/g/n 2.4GHz and 5GHz concurrent operation
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: 11, 5.5, 2 and 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps
RADIO CHAINS	• 3 x 3: 2
FREQUENCY BAND	 IEEE 802.11n: 2.4 – 2.484 GHz and 5.15 – 5.85 GHz IEEE 802.11a: 5.15 – 5.875 GHz IEEE 802.11b: 2.4 – 2.484 GHz
BSSID	Up to eight per radio (16 total)
WIRELESS SECURITY	WEP, WPA-PSK, WPA-TKIP, WPA2 AES, 802.11i Authentication via 802.1X, local authentication database, support for RADIUS and ActiveDirectory
CERTIFICATIONS	U.S., Europe, Australia, Brazil, Canada, China, Egypt, Hong Kong, India, Japan, Korea, Malaysia, Mexico, New Zealand, Philippines, Singapore, South Africa, Taiwan, Thailand, UAE, Vietnam WEEE/RoHS compliance Wi-Fi Alliance Certification (Wi-Fi Certified*)

Product Ordering Information

MODEL	DESCRIPTION	
ZoneFlex 7762	ZoneFlex 7762 Series 802.11n Outdoor Access Points	
901-7762-XX01	7762: Centrally managed concurrent dual band 802.11n outdoor access point, includes universal pole/wall/ceiling mounting bracket (902-0165-0000) and power injector.	
901-7762-XX91	7762-T: Centrally managed concurrent dual band 802.11n outdoor access point, includes universal pole/wall/ceiling mounting bracket (902-0165-0000) and power injector.	
901-7762-XX51	7762-S: Centrally managed concurrent dual band 802.11n outdoor access point, includes universal pole/wall/ceiling mounting bracket (902-0165-0000) and power injector.	
Optional Accessories		
911-1212-DP01	5 GHz directional antenna, dual-polarized 12.5 dBi gain and 120 degrees 3 dBm beam width*	
911-0636-VP01	5 GHz Omni-directional antenna, vertically polarized, 5.5 dBi	
911-0536-HP01	5 GHz Omni-directional antenna, horizontally polarized, 5 dBi	
911-0636-VH01	Bundle of one 911-0636-VP01 and one 911-0536-HP01	
902-0165-0000	Universal pole/wall/ceiling mounting bracket, spare (sold in quantities of 10)	
902-0166-0000	Flat mounting bracket	
902-0180-XX00	PoE injector, spare (sold in quantities of 10 or 100)	

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



Ruckus Wireless, Inc. 350 West Java Drive Sunnyvale, CA 94089 USA (650) 265-4200 Ph \ (408) 738-2065 Fx



^{**} Maximum power varies by country

Specifications (7762-S-AC & 7762-AC)

PHYSICAL CHARACTERIST	ICS
POWER	 Power over Ethernet and 100-240 VAC, 50/60Hz
PHYSICAL SIZE	• 23.9 cm (L), 19.5 cm (W), 14.1 cm (H)
WEIGHT	• 2177 grams (4.8 lbs.)
ANTENNA	ZF 7762-AC: Internal software-configurable dual band antenna array wit directional and omni high-gain elements that provide over 4,000 unique antenna patterns ZF 7762-S-AC: Internal software-configurable 2.4 GHz antenna array with directional high-gain elements that provide over 24 unique antenna patterns (requires external antenna for 5 GHz operations)
ETHERNET PORTS	2 ports, auto MDX, auto-sensing RJ-45 10/100/1000 Mbps Power over Ethernet (802.3at) input 10/100 Mbps Power over Ethernet (802.3af) output
ENVIRONMENTAL CONDITIONS	• IP-67 rated • Operating air temperature: -40°C – 65° C (-40°F – 149°F), -20°C when heater disabled • Operating humidity: 5% to 100% condensing
POWER DRAW	12.95W (PoE)14W typical / 43W peak (AC)
RF (7762-AC)	
ANTENNA	Adaptive antenna array that provides 4,000+ unique antenna patterns
PHYSICAL ANTENNA GAIN	Up to 3 dBi (2.4 GHz)Up to 5 dBi (5 GHz)
RF POWER OUTPUT**	28 dBm (2.4 GHz)26 dBm (5 GHz)
BEAMFLEX* SINR TX GAIN	• Up to 6 dB
BEAMFLEX* SINR RX GAIN	• Up to 4 dB
INTERFERENCE MITIGATION	• Up to 15 dB
MINIMUM RX SENSITIVITY	• Up to -95 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

^{**}Maximum power varies by country

RF (7762-S-AC)	
Adaptive antenna array that provides 24 unique antenna patterns	
Up to 7 dBi (2.4 GHz)Up to 5 dBi (5 GHz)	
28 dBm (2.4 GHz)26 dBm (5 GHz)	
• Up to 6 dB	
• Up to 4 dB	
• Up to 15 dB	
• Up to -95 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

CAPACITY	
CLIENT SUPPORT • 500	
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

WI-FI	
STANDARDS	IEEE 802.11a/b/g/n 2.4GHz and 5GHz concurrent operation
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: 11, 5.5, 2 and 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps
RADIO CHAINS	• 3 x 3:2
FREQUENCY BAND	 IEEE 802.11n: 2.4 – 2.484 GHz and 5.15 – 5.85 GHz IEEE 802.11a: 5.15 – 5.875 GHz IEEE 802.11b: 2.4 – 2.484 GHz
BSSID	Up to eight per radio (16 total)
POWER SAVE	Supported
WIRELESS SECURITY	WEP, WPA-PSK, WPA-TKIP, WPA2 AES, 802.11i Authentication via 802.1X, local authentication database, support for RADIUS and ActiveDirectory
CERTIFICATIONS	U.S., Europe, Australia, Brazil, Canada, China, Egypt, Hong Kong, India, Japan, Korea, Malaysia, Mexico, New Zealand, Philippines, Singapore, South Africa, Taiwan, Thailand, UAE, Vietnam WEEE/RoHS compliance Wi-Fi Alliance Certification (Wi-Fi Certified)

Product Ordering Information

MODEL	DESCRIPTION
ZoneFlex 7762-AC and 7762-S-AC 802.11n Outdoor Access Points	
901-7762-XX03	7762-AC: Centrally managed concurrent dual band 802.11n outdoor access point, includes any angle pole/wall mounting bracket (902-0182-0003)
901-7762-XX53	7762-S-AC: Centrally managed concurrent dual band 802.11n outdoor access point, includes any angle pole/wall mounting bracket (902-0182-0003)
Optional Accessories	
902-0182-0003	Spare outdoor mounting bracket, bare metal, any angle
902-0180-XX00	60W PoE injector 10/100/1000 Mbps with country-specific power cord
902-0183-0000	Spare data connector with weatherizing cable gland
902-0185-0000	Spare weatherized AC connector

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



^{**}Maximum power varies by country