



Ruckus Wireless™ ZoneFlex™ 7731

Smart 802.11n 5 GHz Outdoor Wireless Bridge



Benefits

- Wire-like throughput over the air
- Easy installation and pairing
- Simple positioning and aiming
- Secure and scalable
- Centrally managed network
- Unmatched ROI
- Environmentally-friendly design

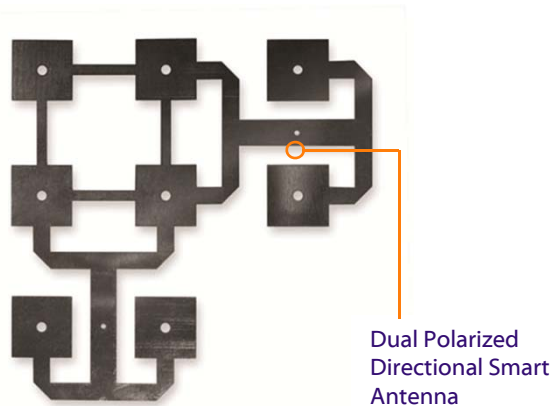
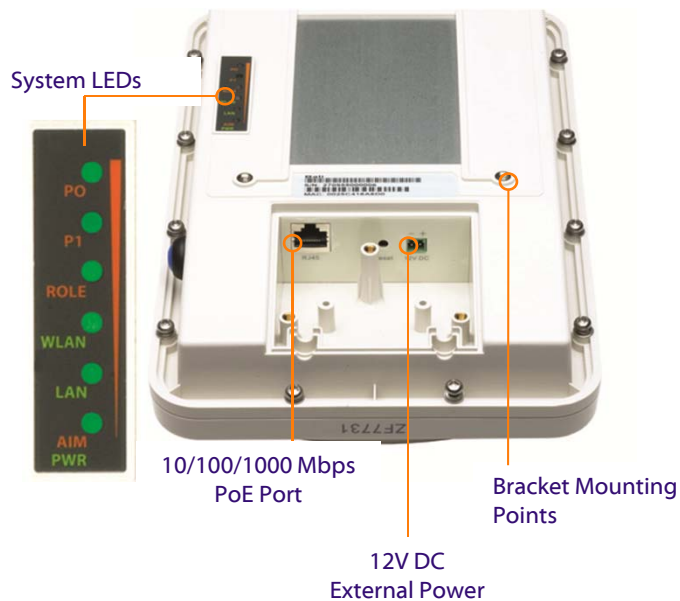
The Ruckus ZoneFlex 7731 is the first centrally-managed, outdoor point-to-point and point-to-multipoint bridge that unleashes the promise of 5 GHz 802.11n, delivering unparalleled throughput. Backhaul throughput of over 100 Mbps opens opportunities to new business models, bridging remote locations and providing broadband services to locations not reachable before, in an affordable way.

Designed for harsh outdoor conditions, the Ruckus ZoneFlex 7731 is perfect for service providers looking to easily extend branded broadband services, backhaul 3G networks, offload data traffic from 3G networks, deploy multimedia hotspots, or offer wireless broadband services where fixed line access is limited.

The ZoneFlex 7731 is also ideal for hotels, schools, warehouses and other enterprises looking to extend managed wireless LANs (WLANs) across remote buildings and where Ethernet cabling is not possible.

Auto-pairing of wireless bridges, in addition to flexible mounting options, forgiving antenna pattern, and an easy-to-use aiming software, allows installers to deploy and optimize a wireless link in a short time, significantly increasing productivity and reducing deployment costs.

The ZoneFlex 7731 can be managed through its own WebGUI or is centrally managed by Ruckus FlexMaster™ Management System, providing a complete view of the entire wireless network including the ZoneDirector™ controller and other indoor and outdoor ZoneFlex Access Points (APs).



Benefits

Wire-like throughput over the air

Based on the 802.11n standard, the ZoneFlex 7731 supports data rates up to 300 Mbps. With a Ruckus purpose-built directional antenna, the ZoneFlex 7731 supports up to 190 Mbps at 1.5 km (1 mi) LoS, and offers performance up to 50 Mbps at 10 km (6 mi) LoS.

Easy installation and pairing

Lightweight and designed with simple and flexible mounting options, the ZoneFlex 7731 enables installers to deploy the wireless bridges effortlessly.

Simple positioning and aiming

With a 30-degree, 3dB beamwidth antenna and sophisticated LED-based aiming software, aiming and optimizing performance has never been easier. And with Auto Channel Selection and Dynamic Channel Management, ZoneFlex 7731 finds and selects the best performing channel automatically.

Secure and scalable

AES-based, the wireless bridge link is secure and can scale to support multiple networks segmented by VLANs.

Centrally managed network

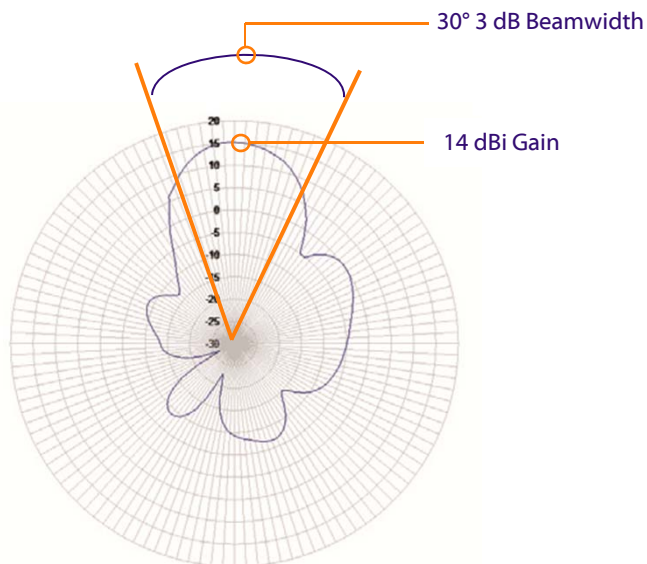
The Ruckus ZoneFlex 7731 bridge can be fully managed by the FlexMaster™ Management System (and supports standard-based SNMP and HTTPS/XML/ SOAP allowing operators to easily configure and manage the bridges as part of the larger network.

Unmatched ROI

The wireless link offers much higher data throughput rates than T1/E1 or xDSL lines at only a fraction of the fixed line installation cost and without the recurring leased line cost. The ZoneFlex 7731 is also an ideal option for backhauling 3G networks.

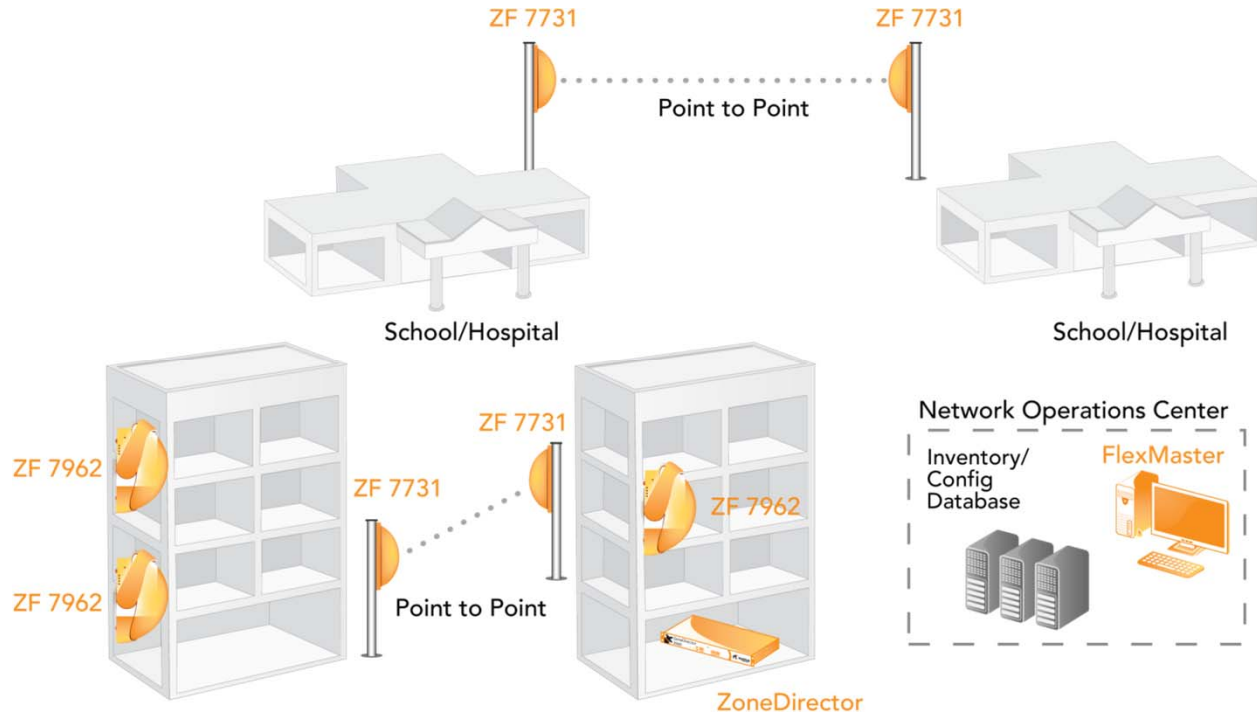
Environmentally-friendly design

The internal dual polarized antenna not only does away the need for installing an external antenna, further simplifying the installation procedure, but also offers an aesthetically pleasing look and feel.



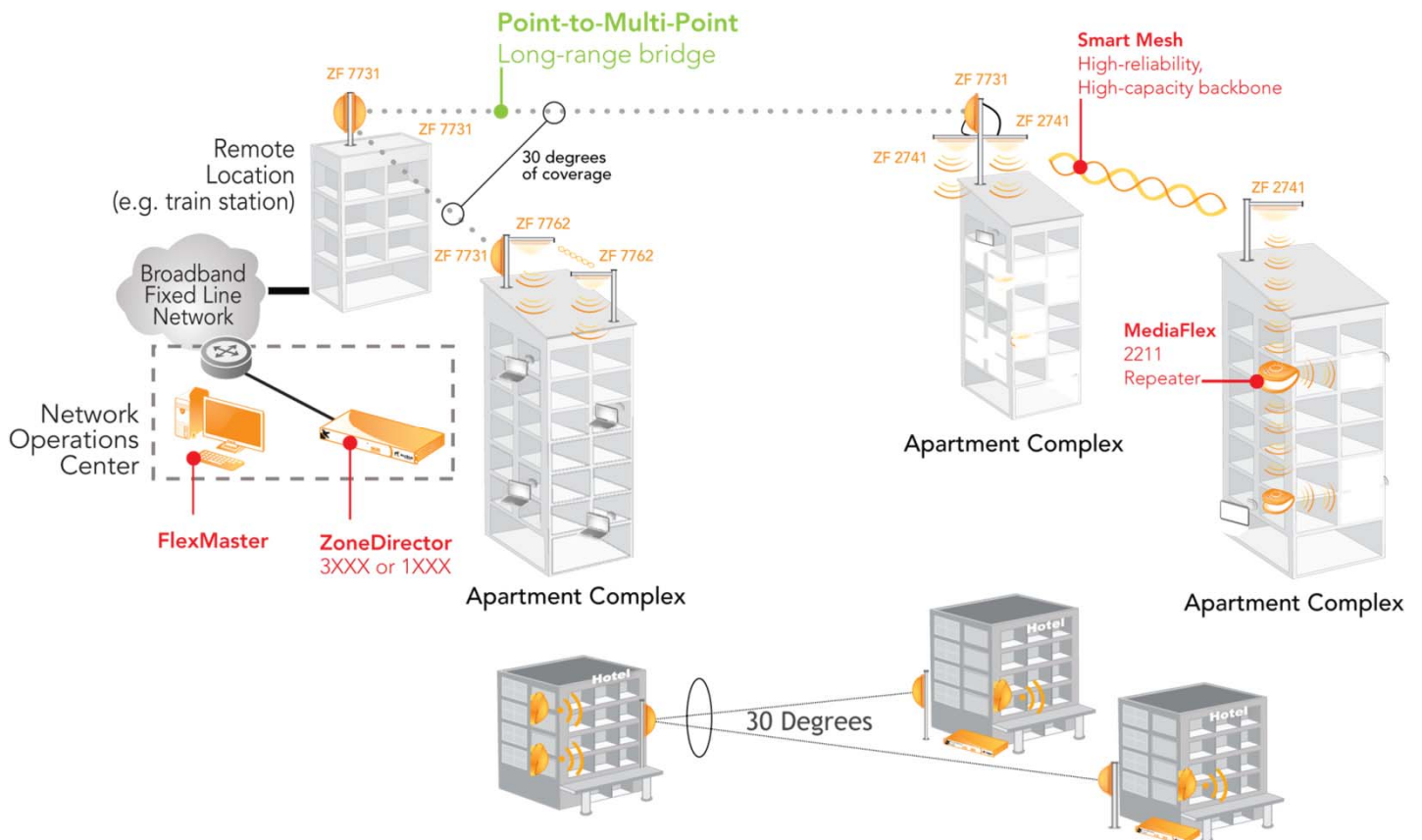
Building to Building Bridging

ZoneFlex 7731 provides an ideal solution for either the primary link or the redundant link between the two LANs in different buildings.



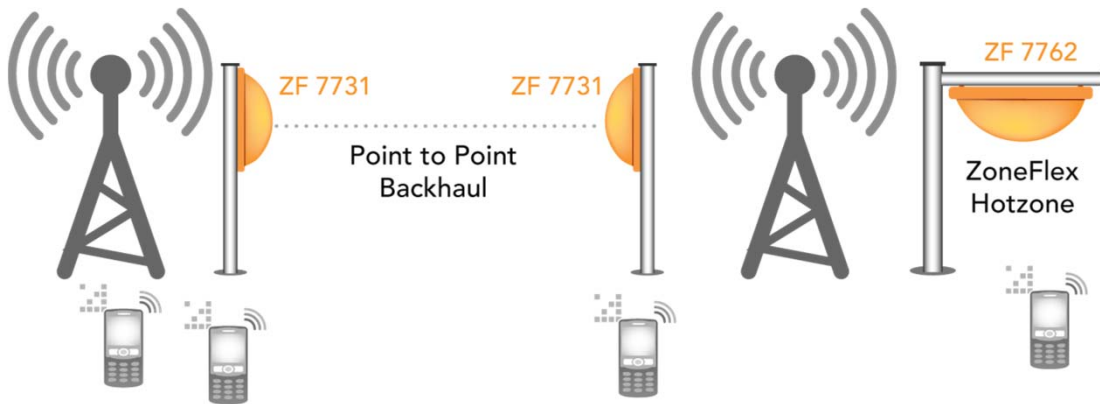
Wireless Broadband Access

ZoneFlex 7731 allows providers to reliably deliver new wireless broadband services in areas where fixed line access is non-existent or cost-prohibitive.



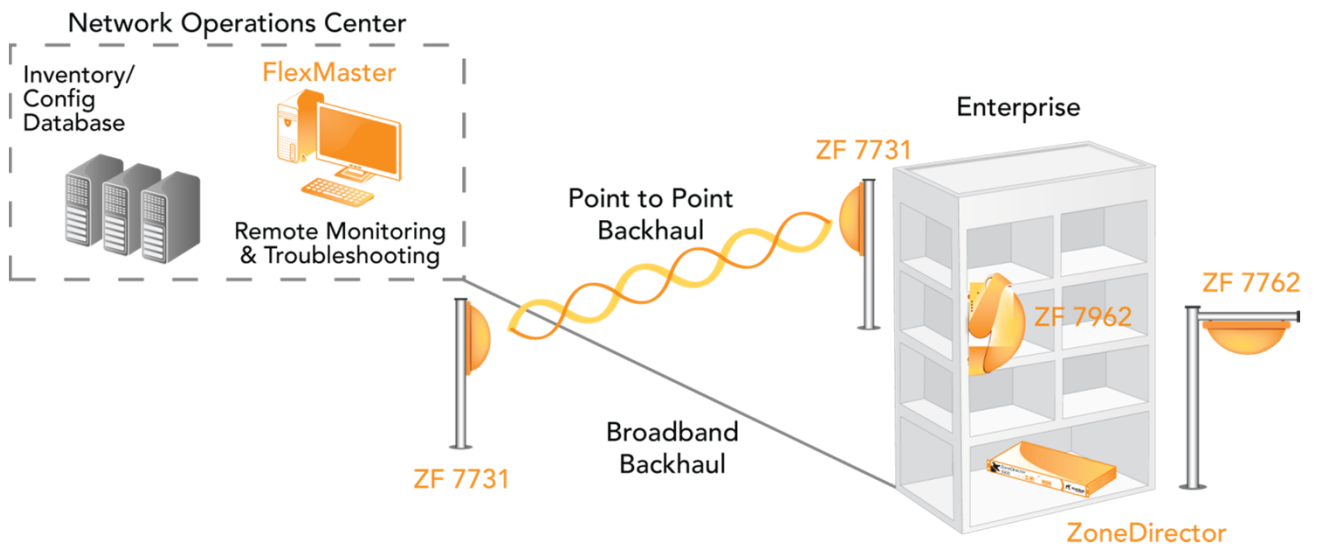
3G Backhaul and Offload

ZoneFlex 7731 offers cost-effectiveness, reliability and better performance for 3G network offload and backhaul.



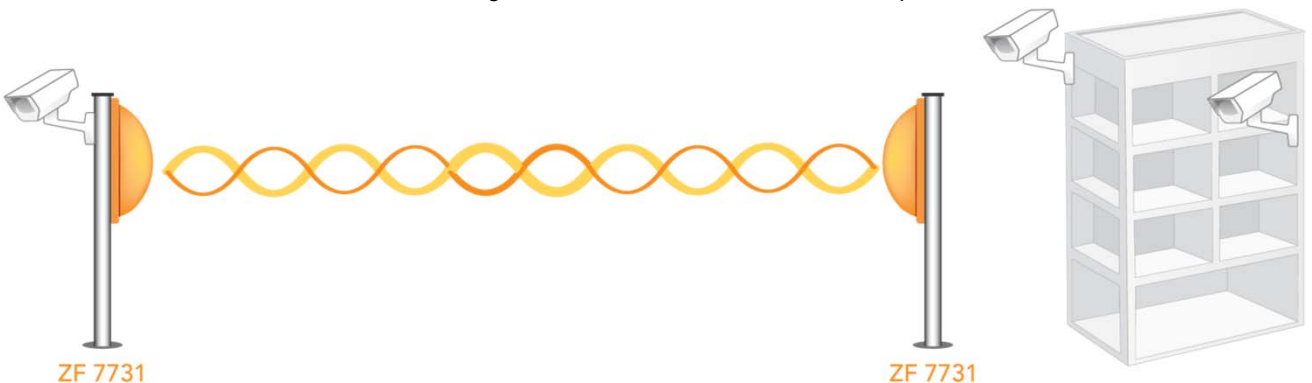
Backup Link for Disaster Recovery

ZoneFlex 7731 serves as a high performance back up link for enterprise disaster recovery.



Video Surveillance

ZoneFlex 7731 offers reliable wireless streaming of surveillance video back to a central post.



Specifications

Physical Characteristics	
Power	Power over Ethernet and 12V DC
Power Draw	7 W without heating 12 W with heating
Physical Size	27.1 cm (L), 17.2 cm (W), 13.15 cm (H) 10.7" L x 6.7" W x 5.1" H
Weight	877 grams (1.93 lbs.) (no external mounting hardware)
Antenna	14 dBi internal directional antenna 30 degree 3 dB beamwidth Two external N-Type antenna connectors
Ethernet Ports	1 port, auto MDX, auto-sensing 10/100/1000 Mbps, RJ-45 Power over Ethernet (802.3af)
Environmental Conditions	IP-65 rated Operating air temperature: -40° C to 65° C (-40° F to 149° F)
Performance and Supported Configurations	
Target UDP Throughput (Line of Sight)	Up to 190 Mbps at 1.5 km/1 mi Up to 165 Mbps at 3 km/2 mi Up to 100 Mbps at 5 km/3 mi Up to 50 Mbps at 10 km/6 mi
Maximum Link Distance	15 kilometers
Point-to-Multipoint	30 degrees of coverage from the root bridge with internal antenna
Traffic Management and Quality of Service	
Automatic Traffic Classification	Automatic type of service tagging for multicast video and voice packets Automatic prioritization of VoIP and video traffic Support for 802.1p
VLAN Support	802.1Q Passthrough Management VLAN
Classes of Service	Voice, video, best effort and background
802.1p Based Classification	Supported
Heuristic Classification	Supported
Management	
Configuration	Web user interface, CLI (Telnet), SSH HTTP/S/XML/SOAP, SNMP statistics interface through the FlexMaster™ Management System
Statistics	Link event counters
Auto AP Software Updates	FTP or TFTP, remote auto available
Auto Provisioning	Automatic or manual
Wi-Fi*	
Standards	IEEE 802.11a/n 5 GHz operation
Supported Data Rates	802.11n: 6.5 Mbps – 130 Mbps (20 MHz) 6.5 Mbps – 300 Mbps (40 MHz) 802.11a: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps
Modulation	OFDM
Radio Chains	2 x 2
Spatial Streams	2
RF Power Output	22 dBm
Channelization	20 MHz and/or 40 MHz
Frequency Band	IEEE 802.11n: 5.15 – 5.875 GHz IEEE 802.11a: 5.15 – 5.875 GHz
Operating Channels	5 GHz 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, 169, 173
Wireless Security	WPA2 AES, 802.11i
Certifications	U.S., Europe, Canada, Australia, China, India, New Zealand, Philippines, Taiwan, Thailand, Vietnam WEEE/RoHS compliance
Deployment	
Options	Individually managed Managed by the FlexMaster™ Management System
Aiming Assistance	LED-based aiming software

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Ordering Information

ARRIS #	Mfg #	Description
TBD	TBD	ZoneFlex 7731 Pre-Provisioned Pair of Two Centrally Managed 802.11n 5 GHz Outdoor Point-to-Point Bridges* (For Point-to-Point Only Applications)
TBD	TBD	ZoneFlex 7731 Single Unit of Centrally Managed 802.11n 5 GHz Outdoor Point-to-Point Bridge*
794015	SVC-CTRCT	1 Year Service Contract Required * Includes Universal Pole/Wall/Ceiling Mounting Bracket(s) & Power Injector

PLEASE NOTE: When ordering you must specify the destination region by indicating -US, -EU, -UK, -CH, -UN, -AU, -UU or -IN.

Contact ARRIS: (888) 353-9473 www.arrisi.com

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