The Ruckus ZoneFlex 7762 Series represents a completely new class of outdoor Wi-Fi products that unleashes the promise of 802.11n — delivering unparalleled simplicity, throughput, range and reliability at a fraction of the cost of conventional alternatives.

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 also is 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.

Ruckus ZoneFlex 7762 Series simply plug into any Ethernet network and automatically discover the ZoneDirector. No RF tuning, no client configuration needed. A true plug-and-play outdoor WLAN that is ready to use.

**BENEFITS**

**Unprecedented outdoor Wi-Fi performance**
Advanced Smart Wi-Fi design with concurrent 802.11n radios delivers 150 Mbps of sustained throughput between mesh APs 300 meters apart and 50 Mbps of sustained throughput to clients 150 meters away.

**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 -15dB of interference mitigation and support for up to 500 clients in the AC.

**Simplicity and elegance make deployment a breeze**
A sleek, lightweight design hiding external antennas is combined with ultra-simple, Wizard-based configuration to make configuration and installation as simple as it gets, performed in minutes, not hours.

**Proven support for IP-based voice and video over Wi-Fi**
A directional antenna array and expert QoS software optimize delay-sensitive, IP video and high-density voice over Wi-Fi (VoFi) applications and PoE output allows connecting other devices such as an IP camera.

**Smart meshing streamlines costly and complex deployment**
Integrated Smart Mesh Networking technology automates deployment and eliminates running expensive cables to every outdoor AP.

**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**

**ZoneFlex 7762**

- Concurrent dual-band (5GHz/2.4GHz) support
- Adaptive antenna technology and advanced RF management
- Up to 6 dB signal gain / -15dB interference mitigation (ZF7762)
- Up to 6 dB signal gain / -15 dB interference mitigation (ZF7762-S)
- 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

**ZoneFlex 7762-S**

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

**ZoneFlex 7762-T**

- Optimized for 3G offload
- Ideal for poles, street corners, areas where 3 APs cannot be mounted

**ZoneFlex 7762-AC, ZoneFlex 7762-S-AC**

- Optimized for 3G offload
- Ideal for poles, street corners, areas where 3 APs cannot be mounted
- AC power for flexible deployment

**Key Features**

- Dual-band 802.11n 3:3x2, 600 Mbps
- Smart antenna for 2.4/5GHz 19 elements, +4000 patterns 360° coverage
- Dual-band 802.11n 3:3x2, 600 Mbps
- Smart antenna for 2.4GHz 12 elements, 24 patterns 120° coverage, 5GHz external antennas
- Dual-band 802.11n 3:3x2, 600 Mbps
- Smart antenna for 2.4GHz 12 elements, +4000 patterns 360° coverage, 5GHz external antennas

- 600 Mbps of user throughput (300 Mbps/radio)
- 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
Smart Wi-Fi Dual-Band 802.11n Outdoor AP

ZoneFlex 7762/7762-4C: General Purpose Outdoor, Enterprise
- 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° “beamforming” coverage
- 19 elements, +4000 patterns
- IP-67 rated, -40°C – 65°C
- Standalone or centrally managed by ZoneDirector or FlexMaster

ZoneFlex 7762-S/7762-AC: Long-range, horizontal coverage/capacity
- 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

ZoneFlex 7762-T: Mobile Data Offload
- Smart antenna optimized for 2.4GHz
- 360° “beamforming” 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

ZoneFlex 7762 can be deployed in harsh environmental conditions ranging from -40°C – 65°C (-40°F – 149°F)

Flexible mounting options including pole, ceiling or wall mounting

Power over Ethernet (PoE) output for metro picocell base station

Low profile bracket with “Any Angle” mounting
## Specifications (7762, 7762-S, 7762-T)

### PHYSICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th><strong>POWER</strong></th>
<th>Power over Ethernet and 12V DC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PHYSICAL SIZE</strong></td>
<td>23.9 cm (L), 19.5 cm (W), 14.1 cm (H)</td>
</tr>
<tr>
<td><strong>WEIGHT</strong></td>
<td>1900 grams (4.19 lbs.)</td>
</tr>
</tbody>
</table>

### ANTENNA

| **RF (7762, 7762-S)** | Adaptive antenna array that provides 4,000+ unique antenna patterns |
| **MAXIMUM EIRP** | 2.4 GHz: 35 dBm, 5 GHz: 31 dBm |
| **PHYSICAL ANTENNA GAIN** | Up to 12 dBi (2.4 GHz), Up to 10 dBi (5 GHz) |
| **BEAMFLEX* SINR TX GAIN** | Up to 6 dB |
| **BEAMFLEX* SINR RX GAIN** | Up to 4 dBi |
| **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.

### RF (7762-T)

| **ANTENNA** | Adaptive antenna array that provides 4,000+ unique antenna patterns |
| **MAXIMUM EIRP** | 2.4 GHz: 33 dBm, 5 GHz: 31 dBm |
| **PHYSICAL ANTENNA GAIN** | Up to 10 dBi |
| **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.

### PERFORMANCE AND CAPACITY

| **TARGET UDP THROUGHPUT** | Up to 150 Mbps sustained throughput over 300 meters between mesh nodes, Up to 50 Mbps sustained throughput over 150 meters to client devices |
| **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 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 |
| **RF POWER OUTPUT** | 26 dBm/600 mW* |
| **FREQUENCY BAND** | IEEE 802.11n: 2.4 – 2.484 GHz and 5.15 – 5.85 GHz IEEE 802.11a: 5.15 – 5.785 GHz IEEE 802.11b: 2.4 – 2.484 GHz |
| **BSSID** | Up to eight per radio (16 total) |

### WIRELESS SECURITY

| **IEEE 802.11 Wi-Fi Security** | WEP, WPA-PSK, WPA-TKIP, WPA2 AES, 802.11i Authentication via 802.1X, local authentication database, support for RADIUS and ActiveDirectory Certification of security features |

| **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 |

*Maximum power varies by country

### Product Ordering Information

<table>
<thead>
<tr>
<th><strong>MODEL</strong></th>
<th><strong>DESCRIPTION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>901-7762-XX01</td>
<td>7762: Centrally managed concurrent dual band 802.11n outdoor access point, includes universal pole/wall/ceiling mounting bracket and power injector.</td>
</tr>
<tr>
<td>901-7762-XX91</td>
<td>7762-T: Centrally managed concurrent dual band 802.11n outdoor access point, includes universal pole/wall/ceiling mounting bracket and power injector.</td>
</tr>
<tr>
<td>901-7762-XX51</td>
<td>7762-S: Centrally managed concurrent dual band 802.11n outdoor access point, includes universal pole/wall/ceiling mounting bracket and power injector.</td>
</tr>
</tbody>
</table>

#### Optional Accessories

| **911-1212-DP01** | 5 GHz directional antenna, dual-polarized 12.5 dB gain and 120 degrees 3 dB 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, 5.0 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, -EU, -AU, -BR, -CN, -IN, -JP, -KR, -SA, -UK, -UN or -UU instead of -XX.
### Specifications (7762-S-AC & 7762-AC)

- **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 with directional and omni high-gain elements that provide over 4,000 unique antenna patterns. ZF 7762-S-AC: Internal software-configurable 2.4GHz antenna array with directional high-gain elements that provide over 36 unique antenna patterns (requires external antenna for 5GHz 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
- **Power Draw**: 12.95W (PoE). 14W typical / 43W peak (AC)

### RF (7762-AC)
- **Antenna**: Adaptive antenna array that provides 4,000+ unique antenna patterns
- **Maximum EIRP**: 31 dBm
- **Physical Antenna Gain**: Up to 8 dBi (2.4 GHz). Up to 10 dBi (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

### RF (7762-S-AC)
- **Antenna**: Adaptive antenna array that provides 24 unique antenna patterns
- **Maximum EIRP**: 2.4 GHz: 35 dBm. 5 GHz: 31 dBm
- **Physical Antenna Gain**: Up to 12 dBi (2.4 GHz). Up to 10 dBi (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.

### Performance and Capacity
- **Target UDP Throughput**: Up to 150 Mbps sustained throughput over 300 meters between mesh nodes. Up to 50 Mbps sustained throughput over 150 meters to client devices
- **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 Mbps – 130 Mbps (20 MHz). 6 Mbps – 300 Mbps (40 MHz). 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
- **RF Power Output**: Up to 26 dBm/600 mW
- **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

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>901-7762-XX03</td>
<td>ZoneFlex 7762-AC and 7762-S-AC 802.11n Outdoor Access Points. Centrally managed concurrent dual band 802.11n outdoor access point, includes any angle pole/wall mounting bracket</td>
</tr>
<tr>
<td>901-7762-XX53</td>
<td>802.11n AC: CENTRALLY MANAGED CONCURRENT DUAL BAND 802.11N OUTDOOR ACCESS POINT, INCLUDES ANY ANGLE POLE/WALL MOUNTING BRACKET</td>
</tr>
</tbody>
</table>

**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, -EU, -AU, -BR, -CN, -IN, -JP, -KR, -SA, -UK, -UN or -UU instead of -XX.
About BarcodesInc

Who We Are
BarcodesInc is North America's leading provider of specialized digital data hardware and software solutions. Our products include barcode scanners, mobile computing devices, identification card equipment, point-of-sale systems, barcode label and receipt printers, and consumables, all of which help customers improve productivity and profitability. Our product and solution experts have been serving both small businesses and large enterprises since 1994.

We Owe Our Success To You
It’s true that data tracking is our expertise - but customer satisfaction is our true passion. We have one overriding objective: focus on you, the customer. We understand that each customer’s need is unique. That’s why we listen carefully and tailor our solutions to meet your needs. We appreciate the opportunity to serve you and strive to exceed your expectations!

Why Choose BarcodesInc?

Dedicated Account Manager
Our Account Managers will not compromise when it comes to providing you top-notch service. Your Account Manager is the primary point of contact for your business and makes it a priority to get to know you, your company and all your needs.

Highly-Trained Technical Support
Our technical staff has the broadest knowledge and every significant certification in the industry. One of our friendly experts is always available to suggest products and solutions for any situation.

Incredible Value
Our purchasing power means big savings for you. Whatever your project, our team will work hard to deliver a solution that fits your budget.

Largest Inventory in the Industry and Same-Day Shipping
Whatever your barcoding, mobile computing, or printing needs, we will fill your order and ship it the same day.

Premier Access to Top Manufacturers
BarcodesInc maintains strong strategic partnerships with the leading manufacturers in barcoding, mobile computing, printing and RFID.

Responsive Customer Service
Every phone call and email is responded to promptly, completely and accurately by our customer service team.

Easy Returns
Damaged, defective or incorrectly ordered goods may be returned without hassle.