

# product guide



## ZoneFlex Indoor APs



FEATURE	ZF7025	ZF7055	ZF7321	ZF7352	R300	ZF7372	ZF7982	R700
<b>DESCRIPTION</b>	NEMA wall mounted 5 port Wi-Fi switch	Dual-band Universal wall mounted 5 port Gigabit Wi-Fi switch	Dual-band switchable AP with unmatched price / performance	Mid-range 802.11n single band 2.4 GHz AP with BeamFlex +	802.11n dual concurrent entry level APs	Mid-range 802.11n dual concurrent AP with BeamFlex +	High-end 802.11n dual concurrent AP with BeamFlex +	High-end 802.11ac dual concurrent AP with BeamFlex +
Maximum PHY rate	150 Mbps	600 Mbps	300 Mbps	300 Mbps	600 Mbps	600 Mbps	900 Mbps	1300 Mbps (5GHz) 450 Mbps (2.4GHz)
Wi-Fi technology	802.11n (2.4 GHz)	802.11n (2.4/5 GHz)	802.11n (2.4/5 GHz)	802.11n (2.4 GHz)	802.11n (2.4/5 GHz)	802.11n (2.4/5 GHz)	802.11n (2.4/5 GHz)	802.11ac (2.4/5 GHz)
Concurrent users	100	500	250	250	250	500	500	500
Radio chains:streams	1x1:1	2x2:2	2x2:2	2x2:2	2x2:2	2x2:2	3x3:3	3x3:3
Antenna elements	1	4	4	14	14	14	21	21
Antenna patterns	—	—	—	128	128	300+	3000+	3000+
BeamFlex gains	—	—	—	4 dB Tx / 4 dB Rx	4 dB Tx	4 dB Tx / 4 dB Rx	6 dB Tx / 4 dB Rx	6 dB Tx / 4 dB Rx
Interference mitigation	—	—	—	Up to 10 dB	Up to 10 dB	Up to 10 dB	Up to 15 dB	Up to 15 dB
Polarization	Vertical	Vertical	Vertical	Dual	Vertical	Dual	Dual	Dual
Rx sensitivity (2.4/5GHz)	-92 dBm	-90/-89 dBm	-101/-96 dBm	-101 dBm	-101/-97 dBm	-101/-97 dBm	-101/-96 dBm	-99 dBm
ChannelFly	✓	✓	✓	✓	✓	✓	✓	✓
Smart meshing	—	✓	✓	✓	—	✓	✓	✓
Ethernet ports	5	5	1	2	1	2	2	2
SKU/Part Number	901-7025-XX02	901-7055-XX01	901-7321-XX00	901-7352-XX00	901-R300-XXYY	901-7372-XX00	901-7982-XX00	901-R700-XX00

# product guide



## ZoneFlex Outdoor APs



FEATURE	ZF7762/7762-AC	ZF7762-S	ZF7761-CM	ZF7781CM	ZF7782	ZF7782-S	ZF7782-N	ZF7731
<b>DESCRIPTION</b>	Enterprise class 802.11n AP with AC power option	Enterprise class 802.11n AP with 120° sector antenna	Mid-range DOCSIS 3.0 802.11n AP	High-end DOCSIS 3.0 802.11n AP	High-end carrier class 802.11n AP	High-end carrier class sectorized 120° AP	Carrier class 802.11n very high density AP	Point-to-Point / Multi-point bridge
Maximum PHY rate	600 Mbps	600 Mbps	600 Mbps	900 Mbps	900 Mbps	900 Mbps	600 Mbps	300 Mbps
Wi-Fi technology	802.11n (2.4/5 GHz)	802.11n (2.4/5 GHz)	802.11n (2.4/5 GHz)	802.11n (2.4/5 GHz)	802.11n (2.4/5 GHz)	802.11n (2.4/5 GHz)	802.11n (2.4/5 GHz)	802.11n (5 GHz)
Concurrent users	250/500	250	250	500	500	500	500	—
Radio chains:streams	3x3:2	3x3:2	3x3:2	3x3:3	3x3:3	3x3:3	2x2:2	2x2:2
Antenna elements	12	Sectorized	12	48	48	Sectorized	2	PTP, PTMP
Antenna patterns	4000+	8	4000+	2000+	2000+	8+	2	—
BeamFlex gains	6dB Tx \ 4dB Rx	6dB Tx \ 4dB Rx	6dB Tx \ 4dB Rx	6dB Tx \ 4dB Rx	6dB Tx / 4dB Rx	6dB Tx \ 4dB Rx	6dB Tx / 4dB Rx	—
Interference mitigation	Up to 15dB	Up to 15dB	Up to 15dB	Up to 15dB	Up to 15dB	Up to 15dB	Up to 15dB	—
Polarization (vert/horz)	Dual	Vertical	Dual	Dual	Dual	Vertical	Dual	Dual
Rx sensitivity (2.4/5GHz)	-94/-95 dBm	-94/-95 dBm	-94/-95 dBm	-101/-96 dBm	-101/-96 dBm	-95/-94 dBm	-101/-96 dBm	-96 dBm
ChannelFly	✓	✓	✓	✓	✓	✓	✓	✓
Smart meshing	✓	✓	✓	✓	✓	✓	✓	—
Ethernet ports	2	2	1	1	2	2	2	1
SKU/Part Number	901-7762-XX01	901-7762-XX51	901-7761-XXCM	901-7781-XXCM	901-7782-XX01	901-7782-XX51	901-7782-XX61	901-7731-XX02

## ZONEDIRECTOR: ENTERPRISE WLAN AND HOT ZONES

### CONTROLLERS



1100



3000



5000

	1100	3000	5000
Number of APs supported	6,12,25,50	Up to 500	Up to 1,000
Clients	Up to 1,250	Up to 10,000	Up to 20,000
Physical size	25 cm (L), 15.93 cm (W), 3.86 cm (H)	35.52 cm (L), 43.18 cm (W), 4.39 cm (H) 1U rack	50.8 cm (L), 43.53 cm (W), 8.76 cm (H) 1U rack
Ethernet ports	2 ports, auto MDX, auto-sensing, 10/100/1000 Mbps, RJ-45	2 ports, auto MDX, auto-sensing, 10/100/1000 Mbps, RJ-45	2 ports, auto MDX, auto-sensing, 10/100/1000 Mbps, RJ-45
Authentication support	802.1X, Local database ActiveDirectory, RADIUS, LDAP	802.1X, Local database ActiveDirectory, RADIUS, LDAP	802.1X, Local database, External AAA servers, ActiveDirectory, RADIUS, LDAP
Guest networking/captive portal	✓	✓	✓
DHCP server	✓	✓	✓
AP discovery and control	L2/L3	L2/L3	L2/L3
SSID/WLAN support	128	1024	2048
Remote management	Web GUI, FlexMaster	Web GUI, FlexMaster	Web GUI, CLI, FlexMaster
Management protocol(s)	SNMP v3	SNMP v3	SNMP v3
VLAN support	802.1Q (per BSSID), Dynamic VLANs	802.1Q (per BSSID), Dynamic VLANs	802.1Q (per BSSID), Dynamic VLANs
Deployment	Out of datapath	Out of datapath	Out of datapath
Power supply	110-240 VAC   12 VDC, 1A	Internal power supply, 100-250 VAC	DC or AC, redundant, hot swappable
Fans	—	Internal	Redundant, hot swappable
SKU / Part Number	901-11YY-XX00	Hardware: 901-30YY-XX00   AP Lic: 909-0YYY-ZD00	DC: 901-5100-XX00   AC: 901-5100-XX10   AP Lic: 909-0YYY-ZD50

## FLEXMASTER AND SMART/OS: WI-FI MANAGEMENT



FlexMaster

Application	Remote Wi-Fi management
Platform	External Linux-based
Device management	Ruckus Smart Wi-Fi APs and controllers
Management protocol	HTTPs/XML
AP configuration	✓
Delegated administration	✓
WLAN configuration and administration	✓
Bulk firmware upgrades for selected devices or groups	✓
Configuration templates	✓
Detailed reporting	✓
SKU / Part Number	901-XXXX-FME0

## SMARTCELL: CARRIER WIRELESS EDGE SERVICES



SMARTCELL GATEWAY 200 (SCG-200)

Number of APs supported	Up to 10,000
Clients	Up to 100,000
Physical size	50.8 cm (L), 45.53 cm (W), 8.76 cm (H) 40 Lbs. (18.14 kilograms) 2RU rack mountable
Connections	Control: Six 10/100/1000 Mbps RJ-45 ports Data: two 10 GigE data ports Serial ports, RJ-45 (one front, one back)
Authentication support	See Data Sheet
Data Offload	Clientless 802.1X solution; Ruckus TTG-PDG gateway based tunneling offload; Wi-Fi edge network data offload (local breakout)
WLANs	6,144
AAA Service	Incorporates on-board EAP-server enabling SIGTRAN based authentication with external HLR/HSS; RADIUS AAA proxy
Element Management	See Data Sheet
WISPr Support	WISPr 1.0 authentication
Redundancy	Distributed data preserving with 3:1 redundancy; expansion up to 4 in 4/4 active mode
Power supply	DC or AC, dual redundant, hot swappable
Fans	Six redundant, field hot swappable
SKU / Part Number	901-S20J-XX10/00

## SMARTCELL: CARRIER WIRELESS EDGE SERVICES



SMARTCELL 8800

Technology	802.11a/b/g/n
Spectrum	2.4 GHz/5 GHz
Ports	1x10/100/1000 Mbps
Theoretical max. speed	900 Mbps
802.3 af (PoE) in support	√
MAX EIRP	2.4 GHz: 41 dBm / 5 GHz: 43 dBm
Link layer security	WEP, WPA-PSK, WPA-TKIP, WPA2-AES, 802.11i
Antenna elements/signal paths	24/>8
Antenna gain/interference mitigation	41 dBi/15 dB (2.4 GHz) 43 dBi/15 dB (5.0 GHz)
BeamFlex gain Tx/Rx (dB)	6 dB/4 dB
Max Rx sensitivity (dBm)	2.4 GHz: -101 dBm / 5 GHz: -97 dBm
Simultaneous users	500
Management protocol(s)	SNMP v3, HTTPs/XML, CLI, TR-069 (via FlexMaster)
SSIDs/WLANs	64
SKU / Part Number	901-8800-XX01