BS 5-90ac

11ac 5GHz Outdoor Base Station



Incredible performance

BS 5-90ac is 5GHz high-capacity outdoor PTMP base station features 500+ Mbps thruoghput - a result of powerful hardware platform with 802.11ac technology based radio and a proprietary data transmission protocol (iPoll). Based on a QCA 9563 CPU (750 MHz), QCA 9882 radio and 64 MBytes of RAM and 16 MBytes of flash memory the, BS 5-90ac series devices are an ideal solution for capacity demanding applications. State of the art RF design with great output power and sensitivity parameters improve range and capacity over highest modulation - 256 QAM. The 24V Gigabit Ethernet port (passive PoE) allows utilizing the full capacity of the radio when using in a point-to-point and point-to-multipoint scenario. BS 5-90ac devices are backwards compatible with Alti-link devices using iPoll mode, which helps to expand or upgrade existing networks using the latest technologies gradually.

New form factor

New shape of the enclosure is smaller, lighter and with retained IP-66 weather protection raiting. Smaller packaging allows saving freight cost when shipping the goods. The new design has no metal parts, which makes the device lighter and corrosion resistant.

New mounting

The adjustable mounting bracket is very easy to assemble and install. It consists of two easy to connect parts that allow tilting the device up and down when installing on a pole. A metal strap is included to securely tighten the device. This design includes additional reinforcements and thicker materials to ensure survival in extreme climate conditions.

Powerfull OS

The Alti-link OS is a highly functional and easy to use operating system flawless operation of all Alti-link hardware devices and effortless setup for those deploying the networks. High performance (500 Mbps) allows offering more bandwidth together with additional services like VoIP and IPTV using a smart QoS mechanism and muticast traffic enhancements for tripple play services, which essential for all next generation service providers complementing their portfolio with more performance and reliability requiring services. iPoll - proprietary transmission protocol ensures smooth performance with a high number of clients even in a noisy environments.

Specifications

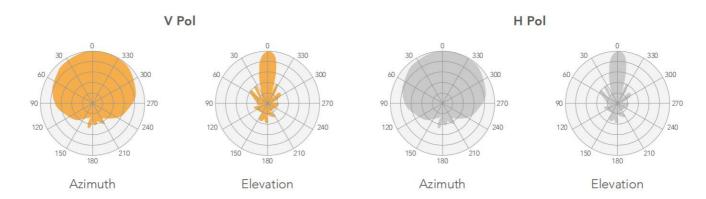
Distance/Model	PTMP mode
BS 5-90ac	5 km/.3.1 mi

Wireless									
WLAN standard	IEEE 802.11 a/n/ac, iPoll 3								
Radio mode	MIMO 2x2								
Radio frequency band	5 GHz: 5.150 - 5.850 GHz (FCC 5.150 - 5.250 and 5.725 - 5.850 GHz)								
Transmit power	Up to 30 dBm (country dependent)								
Channel size	5, 10, 20, 40, 80 MHz								
Modulation schemes	802.11 a/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK)								
	802.11 ac: OFDM (256-QAM, 64-QAM, 16-QAM, QPSK, BPSK)								
Data rates	802.11 ac @ 40 MHz: 400, 360, 300, 270, 240, 180, 120, 90, 60, 30 Mbps								
	802.11 ac @ 80 MHz: 866, 780, 650, 585, 520, 390, 260, 195, 130, 65 Mbps								
Error correction	FEC, LDPC								
Duplexing scheme	Time division duplex								
Antenna									
Type Integrated	Integrated dual-polarized 90 degree sector antenna								
Gain	18dBi								
Wired									
Ethernet port	10/100/1000 Base-T, RJ45								
Physical									
Dimensions	380mm, 100mm, 35mm								
Weight	0.460g								
Mounting	Pole mounting bracket included								
Power									
Power supply	24 VDC passive PoE (AC to 24 VDC adapter is included in packing)								
Power source	100 - 240V AC								
Power consumption	10 W								
Environment									
Operating temperature	-40°C (-40 F) ~ +65°C (+149 F)								
Working temperature	0 ~ 90 % (non-condensing)								
Management									
System monitoring	SNMP, Syslog, Web UI, Infinity controller								
Configuration	WebUI, Infinity controller								
Certificate									
Certificate	Meet FCC/IC/CE standards								

40MHz	Rate, Mbps	400	360	300	270	240	180	120	90	60	30
40IVI⊓2	TX power, dBm	26	27	28	29	30	30	30	30	30	30

	RX sensitivity, dBm	-70	-72	-76	-78	-80	-84	-87	-92	-94	-95
	Rate, Mbps	866	780	650	585	520	390	260	195	130	65
80MHz	TX power, dBm	24	25	25	26	27	28	28	29	29	29
	RX sensitivity, dBm	-64	-66	-70	-72	-74	-78	-81	-85	-88	-90

Antenna Specification



Antenna

Frequency range	5.1 - 5.9 GHz
Gain	18 dBi
Polarization	Dual linear
Cross-pol Isolation	24dBi
VSWR	<1.7
Azimuth beamwidth (H pol)	90°
Azimuth beamwidth (V pol)	90°
Elevation beamwidth	20°

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