

BS 5-90ac

11ac 5GHz Outdoor Base Station



Incredible performance

BS 5-90ac is 5GHz high-capacity outdoor PTMP base station features 500+ Mbps throughput - 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 rating. 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 multicast 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 |
| | 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 |
| 80MHz | Rate, Mbps | 866 | 780 | 650 | 585 | 520 | 390 | 260 | 195 | 130 | 65 |
| | 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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