ALTI-LINK

CPE 5-15ac

5GHz High capacity Wireless Bridge

Incredible performance

CPE 5-15ac is 5GHz high-capacity outdoor PTP/PTMP wireless bridge 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, CPE 5-15 ac 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-multi point scenario. CPE 5-15ac 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-65 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.

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

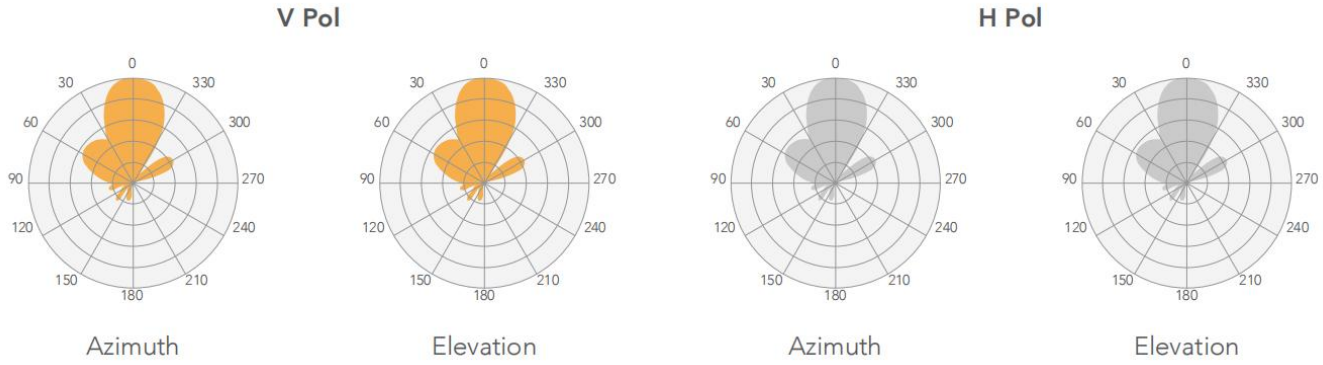
Distance/Model	PTMP mode	PTP mode
CPE 5-20 ac	5 km/ 3.11 mi	7 km/ 4.35 mi

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	dual-polarized directional panel antenna
Gain	15 dBi
Wired	
Ethernet port	10/100/1000 Base-T, RJ45
Physical	
Dimensions	158 mm (6.2 ‘’), 97 mm (3.8 ‘’), 38 mm (1.5 ‘’)
Weight	185 g (0.4 lb)
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，WNMS
Configuration	WebUI，WNMS
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	15 dBi
Polarization	Dual linear
Cross-pol Isolation	21dBi
VSWR	<1.4
Azimuth beamwidth (H pol)	35°
Azimuth beamwidth (V pol)	35°
Elevation beamwidth	35°

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