ALTI-LINK

CPE 5

11a/n 5G Outdoor Wireless Bridge

Overview

The CPE 5 is a versatile, very efficient, and stable 5 GHz wireless bridge. This product is equipped with an extreme output power (up to 29 dBm) 802.11n MIMO radio wrapped securely inside a robust enclosure. The two N-type connectors allow the connection of external antennas suited for a wide range of applications. The powerful radio core is coupled with an advanced and feature-rich operating system, optimized for high performance wireless communications while optionally allowing compatibility with older 802.11 a standard devices. The smart dynamic polling based protocol (iPoll 2) ensures reliable communication even in congested areas with 64 client devices connected to the base-station. Equipped with Alti-link's dual firmware image feature, remote software upgrades are assured even if a power failure interrupts the process. The device will restart using the prior firmware in the event of an upgrade failure. The enclosure is made of polycarbonate plastic with UV inhibitors to provide years of outdoor exposure in direct sunlight without cracking. The CPE 5 was designed and tested to meet an IP-67 rating as well as vibration, temperature, drop, salt, fog, and electrical surge standards to ensure a high level of reliability unsurpassed in the industry. It is equipped with a grounding plug and a grounded 24-volt PoE to allow a professional installation, resistant to electrical surges.

Powerfull OS

The Alti-link OS is a highly functional and easy to use operating system. This powerful and flexible operating system ensures flawless operation of all CPE hardware devices and effortless setup for those deploying the networks.

- Smart polling data transmission protocol (iPoll 3)
- Dual-firmware image support
- Responsive HTML 5 based GUI
- 170 Mbps capacity
- 80,000 PPS rate
- IPv6 support

INFINITY CONTROLLER

The Infinity Controller is Alti-link's proprietary element management system that facilitates network installation, configuration, control, maintenance, monitoring, and expansion.

Specifications

Suggest Distance	PTMP mode	PTP mode	PTP mode (full capacity)
CPE 5	Antenna dependent	Antenna dependent	Antenna dependent

Wireless	
WLAN standard	IEEE 802.11 a/n, iPoll (proprietary)
Radio mode	MIMO 2x2
Radio frequency band	5.150 - 5.850 GHz (FCC 5.150 - 5.250 and 5.725 - 5.850 GHz)
Transmit power	Up to 29 dBm (country dependent)
Receive sensitivity	Varying between -97 and -75 dBm depending on modulation
Channel size	5,10, 20, 40 MHz
Modulation schemes	802.11 a/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Data rates	802.11 n: 300, 270, 240, 180, 120, 90, 60, 30 Mbps
	802.11 a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
Error correction	FEC, Selective ARQ
Duplexing scheme	Time division duplex

		15M	30M	45M	60M	90M	120M	135M	150M
	802.11n ipoll	-97	-95	-93	-88	-85	-81	-79	-77
Receive	(20/40MHz)	30M	60M	90M	120M	180M	240M	270M	300M
sensitivity		-94	-92	-89	-85	-82	-78	-77	-75
(dBm)	002.11	6M	9M	12M	18M	24M	36M	48M	54M
	802.11a	-97	-97	-95	-93	-90	-86	-82	-81

		15M	30M	45M	60M	90M	120M	135M	150M
	802.11n ipoll	29	28	28	28	27	27	25	24
Output power	(20/40MHz)	30M	60M	90M	120M	180M	240M	270M	300M
(dBm -		28	28	28	28	26	26	24	23
combined)	000 11	6M	9M	12M	18M	24M	36M	48M	54M
	802.11a	29	29	29	29	29	27	26	25

Antenna	
Туре	External N-connectors
Gain	Antenna dependent

Wired						
Ethernet port	10/100 Base-T, RJ45					
Physical						
Dimensions	Length 150 mm (5.9 "), width 115 mm (4.5 "), height 55 mm (2.1 ")					
Weight	450 g (16.2 oz)					
Mounting	Combination wall / pole mount with quick swap bracket included					
Power						
Power supply	12 - 24 VDC passive PoE (24 V passive PoE adapter is included in the package)					
Power source	100 - 240 VAC					
Power consumption	4.5 W					
Environment						
Operating temperature	-40°C (-40 F) ~ +65°C (+149 F)					
Working temperature	0 ~ 90 % (non-condensing)					
Management						
System monitoring	SNMP v3, Syslog, Web UI and Infinity					
Configuration	WebUI, Infinity Controller					
Certificate						
Certificate	Meet FCC/IC/CE standards					
Software						
operating modes	Access point (auto WDS), access point (iPoll 3), station (WDS, iPoll 3), station (ARP NAT)					
Wireless techniques	Smart station polling, smart auto-channel, adaptive auto modulation,					
Wireless techniques	automatic transmit power control (ATPC)					
Wireless security	WPA/WPA2 personal, WPA/WPA2 enterprise, WACL, user isolation					
Wireless QoS	4 queues prioritization on iPoll 3					
Network operating modes	Bridge, router iPv4, router IPv6					
Network techniques	Routing with and without NAT, VLAN					
WAN protocols	Static IP, DHCP client, PPPoE client					
Services	DHCP server, SNMP server, NTP client, router advertisement daemon, ping watchdog					
Management	HTTP(S) GUI, SSH, SNMP read, Infinity Controller, Telnet					
Tools	Site survey, link test, antenna alignment					

ALTI-LINK

ALTI-LINK COMMUNICATION CO., LIMITED

Room 310, Building 4, Dongjiu Innovation Technology Park, No#76 Bulan Road, 518057,Shenzhen, P.R.China Tel: +86 755 26937291 Website: www.alti-link.com Email: inquiry@alti-link.com

Copyright ©2014~2024 Alti-link All Rights Reserved.Specifications are subject to change without notice.