CPE 5-15n

11a/n 5GHz Outdoor Wireless Bridge



Overview

The CPE 5-15n is a versatile, very efficient, and stable 11a/n 5GHz CPE. This product is equipped with an extreme output power (up to 29 dBm) 802.11n MIMO radio wrapped securely inside a robust, well designed and a small form factor enclosure. The robust hardware is coupled with a 15 dBi directional panel antenna; ideal for short to medium range applications. Smart dynamic polling based protocol (iPoll 3) ensures reliable communication even in congested areas with 64 client devices connected to a 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 indirect sunlight without cracking. Tested to meet vibration, temperature, drop, salt, fog, and electrical surge standards to ensure a high level of reliability and backed by a two-year warranty. It is equipped with a grounding lugand a grounded 24-volt PoE to allow a professional installation, resistant to electrical surges.

New form factor

The shape of the enclosure is now smaller, lighter but retains the IP-66 weather protection rating. Smaller packaging reduces freight costs and makes them less obvious. The new design has no metal parts, which makes them lighter and corrosion resistant.

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
- WNMS compatible

Specifications

Distance/Model	PTMP mode	PTP mode	PTP mode (full capacity)
CPE 5-15n	5 km/ 3.11 mi	7 km/ 6.21 mi	5 km/ 4.35 mi

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			

Receive sensitivity (dBm)	802.11n ipoll (20/40MHz)	15M	30M	45M	60M	90M	120M	135M	150M
		-97	-95	-93	-88	-85	-81	-79	-77
		30M	60M	90M	120M	180M	240M	270M	300M
		-94	-92	-89	-85	-82	-78	-77	-75
	902.115	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 (20/40MHz)	29	28	28	28	27	27	25	24
Output power		30M	60M	90M	120M	180M	240M	270M	300M
(dBm -		28	28	28	28	26	26	24	23
combined)	802.11a	6M	9M	12M	18M	24M	36M	48M	54M
		29	29	29	29	29	27	26	25

Antenna					
Туре	Integrated directional panel antenna				
Gain	15 dBi				
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 Controller				
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,				
vvii eless 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				

Antenna Specification

Antenna

Frequency range	5.1 - 5.9 GHz
Gain	15 dBi
Polarization	Dual linear
Cross-pol Isolation	27dBi
VSWR	<1.4
Azimuth beamwidth (H pol)	35°
Azimuth beamwidth (V pol)	35°
Elevation beamwidth	35°

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