

machpower®



DATASHEET
WIRELESS CPE/AP
5G 300Mbps OUTDOOR
MODELLO: WL-CPE5G48-058

DESCRIPTION

WL-CPE5G48-058 is an 5G outdoor CPE/WiFi Bridge with 300Mbps data rate. Comply with IEEE802.11a/n standard, Atheros chipset, it supply you a stable and freely wifi networking. What's more, with 15dBi high gain antenna, 30dBm high power output power, the wifi distance more than 3000 meters.

WL-CPE5G48-058 with wonderful RF performance, receive sensitivity can be -95dBm, then data rate can be 300Mbps, improved hardware wifi interference, it is best choice for video and security industrial.

Meantime, it support Power over Ethernet, support passive PoE, easy in setup even no power socket nearby.

With LED light show signal strength, easy to find a suitable place for outdoor CPE, save much human work and cost. With water proof case, it is best choice for outdoor wifi projects.

MAIN FEATURES

ABS waterproof, dust proof and sunscreen shell, temperature adaptive and board protective

WL-CPE5G48-058 with ABS waterproof, dust proof and sunscreen shell, avoid the damage from dust, thunder-storm weather. Meantime, it adaptive to various environment, the working temperature can be normal at -40°C to 70°C Suit for any country.

300Mbps high speed, Atheros industrial chipset, wider application

WL-CPE5G48-058 comply with IEEE 802.11a/n standard, 300Mbps high speed, with Atheros industrial solution, it is a wifi bridge with low power consumption, strong security. With PTP, PTMP, bridge operation mode, widely be used in voice, video, data transmission in long range wireless monitor industrial.

500mW High Power, 15dBi High Gain Antenna, Long Range wifi Device in market

WL-CPE5G48-058 with external power amplifier, 500mW true power, 15dBi high gain antenna, the wifi range is more than 3000 meter, it is the device with most stable performance in long range, max load users, longest wifi range

5GHz frequency, faster, lower latency, higher stability

WL-CPE5G48-058 with frequency of 5.180~5.825GHz, with wireless backbone channel of Europe, Japan, China, it avoid the same frequency interference problem, full meet with data transmission in fast speed, low delay, high stability requirement in wireless monitor.

Multi operation mode: Wireless AP, Wireless Router, WiFi Repeater, WISP

With operation model of wifi repeater, it is a wifi device to bridge the exist wifi signal and transmission out the Ethernet. With operation of AP, it can expand the wifi signal, then share with others.

Support Power over Ethernet, cost save

The device has integrated Power over Ethernet (PoE) for easy installation and lower cost, with 48V PoE, it can be installed in areas where power outlets are not readily available, eliminating the mess of altering existing network infrastructure.

Easy configure, multi function, remote control

WL-CPE5G48-058 with humanized configuration steps, simple to complete the entire system configuration, supply more efficient service for your networking.

WL-CPE5G48-058 support IP bandwidth control, DDNS, firewall, traffic statistics, watchdog, restart in a limited time, together with remote control in restart device and restore to default.

MAIN FUNCTION

- Comply with IEEE802.11a/802.11n standard. 300Mbps data rate
- Support WISP, Wireless AP, WiFi Repeater(Bridge), Gateway operation mode.
- Support bridge and routing mode data forwarding and PPPoE two layer data packet transmission
- Support automatic power adjustment and channel selection
- Support multi security mode
- Support users and traffic flow control
- Support WLAN QoS function, support WMM protocol
- Support MAC access control and WLAN interface
- Support local management, access log and security log.
- Support 10/100Base-T interface, meet with IEEE802.3-2005 standard, and MDI/MDI-X auto connection function.
- Wide working temperature: -40°C 70°C, can be used in any country.
- Support Passive / IEEE 802.3af PoE

SPECIFICATION

Standard	IEEE802.3af, IEEE 802.11n, IEEE 802.11a
Frequency	5.180 - 5.825 GHz
Channel	CH36 ~CH16
Modulation	802.11n/802.11a: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Data Rate	11n: up to 300Mbps(dynamic) 11a: up to 54Mbps(dynamic)
Protocol	CSMA/CA, CSMA/CD, TCP/IP, ICMP, NAT, PPPoE, DHCP, Wired static, Wifi Client, UDP, DDNS
Operation Mode	AP, Gateway, Bridge, WISP
Security	64/128bit WEP WPA(AES, TKIP with IEEE 802.1x) WPA2(AES, TKIPwith IEEE 802.1x) WPS
RF Output Power	802.11n: 25±2dBm, OFDM module 802.11a: 27±2dBm, OFDM
Receive Sensitivity	11n : -72±2dBm@10% PER 11a : -75±2dBm@10% PER
Antenna	15dBi MIMO Panel antenna
Size(mm)	L: 257mm, W: 87mm, H: 38 mm
Weight	0.4KGS
Working Temperat.	-40°C ~ 70°C
Storage Temperat.	-40°C ~ 70°C
Humidity	10% ~ 90% (Non-condensing)
Interface	1 RJ-45 WAN Port 1 RJ-45 LAN Port 1 Reset Button 1 DC Jack
Power	Output: DC12V(POE 48V), 1A; Input: 110V/220V
LED Light	Power, WiFi, WAN, LAN, Signal Strength
Antenna Data	
Frequency range	5180 ~ 5825 MHz

Polarization	Vertical and Horizontal
Gain	2 x 15
Half-power beam width	Vertical = H: 70° V: 15°
	Horizontal = H: 50° V: 15°
Front-to-back ratio	≥25 dB
Input Impedance	50 Ω
VSWR	≤1.5
Isolation ports	≥28 dB
Cross-polar ratio	≥15@0° ≥10@+/-60° dB
Other	
Package content	48V PoE Adapter for Passive PoE Device
	Setting Accessory
	LAN Cable
	User Manual

The Life Warranty means eight years.

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