

## 300Mbps Outdoor CPE

**Model: CPE870**



## Description:

CPE870 is an 300Mbps high power outdoor CPE/AP. Comply with IEEE 802.11b/g/n standard, Atheros 9341 chipset, 14dBi high gain antenna, 500mW high power, the transmit/receive wireless distance can be 2000 meters.

It support WiFi Repeater, WISP operation mode, receive wifi signal from long range, beside that, it support gateway, wireless AP operation mode for outdoor wireless coverage.

CPE-870 with ABS waterproof, dustproof and sunscreen shell, temperature adaptive and board protective . 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.



**Specification:**

**Hardware:**

Chipset	Atheros 9341
Wireless	802.11N, 2T2R 300M MIMO Technology
Memory	64MB DDR2 RAM (128MB available by extra cost)
Flash	8MB(16MB available by extra cost)
Interface	2 10/100 Mbps RJ45 Port, support 12~24V PoE 1 Reset Button 1 DC Jack, 12V Power Supply
Antenna	14dBi Panel Antenna
LED Light	POWER WIFI WAN LAN S1(GPIO9) S2(GPIO14) S3(GPIO11) S4(GPIO12)
Size	L 257mm , W: 87mm, H: 38 mm
Power	12V(POE 24V)/1A;110V/220V

**RF Data**

RF Data	802.11b/g/n:		
	2.4~2.4835GHz		
	Korea, Japan, ETSI, FCC		
Modulation	OFDM = BPSK,QPSK, 16-QAM, 64-QAM		
	DSSS = DBPSK, DQPSK, CCK		
Data Rate	300 Mbps		
Sensitivity	802.11n(2.4GHz)	802.11g	802.11b
	-90dBm @ MCS0	- 90dBm @ 6Mbps	- 95dBm @ 1Mbps
	-70dBm @ MCS7	- 72dBm @ 54Mbps	- 90dBm @ 11Mbps
	-90dBm @ MCS8		
Output Power	-68dBm @ MCS15		
		Radio1(WLAN1)	
	802.11n(2.4GHz)(± 1.5dBm)	802.11g(± 1.5dBm)	802.11b(±1.5dBm)
	25dBm@ MCS0~2/MCS8~10	25dBm @ 6~24Mbps	26dBm @1~11Mbps
	25dBm @ MCS3/MCS11	24dBm @ 36Mbps	
	24dBm @ MCS4/MCS12	24dBm @ 48Mbps	
	24dBm @ MCS5/MCS13	24dBm @ 54Mbps	
	24dBm @ MCS6/MCS14		
	23dBm @ MCS7/MCS15		

<b>Firmware</b>	
Operation Mode	Gateway/AP/WiFi Repeater/ WISP
Protocol/Standard	IEEE 802.3(Ethernet)
	IEEE 802.3u(Fast Ethernet)
	IEEE 802.11b/g/n(2.4G WLAN)
Wireless	Auto-Channel selection
	Distance Control (802.1x Ack timeout)
	Multiple SSID (4 SSID)
	BSSID
Security	WEP Encryption-64/128/152 bit
	WPA/WPA2 Personal (WPA-PSK using TKIP or AES)
	WPA/WPA2 Enterprise (WPA-EAP using TKIP)
	Hide SSID
System Setting	Web-based configuration (HTTP/Telnet)
Firmware upgrade	Upgrade firmware via web browser or TFTP
Administration	Admin Password can be configured
System monitoring	Status in hand , useful statistic and Event log
Log	Supports local logs, logs host, logs file export
Reset	Reset or factory defaults
Backup	Restore settings & configuration of the device to local file
<b>Physical Property</b>	
Temperature	Working: 0°C~55°C
	Storage: -20°C to 70°C
Humidity	5%~95% (typical)
<b>Package:</b>	
CPE870 unit	
PoE Adapter	
User Manual	
LAN Cable	

## Antenna Data:



Frequency range (MHz)	2400~2500
Polarization	Vertical and Horizontal
Gain (dBi)	2×14
Half-power beam width (°)	H: 65 V: 30
Front-to-back ratio (dB)	≥25
Input Impedance (Ω)	50
VSWR	≤1.5
Isolation between ports	≥28dB
Cross-polar ratio	≥15dB@0° ≥10dB@+/-60°
Sidelobe suppression for first sidelobe above horizon	15 dB
Maximum input power (W)	200