

WNOR900

300Mbps Outdoor CPE

Model: WNOR900



Description:

WNOR900 is an 2.4GHz 300Mbps high power outdoor CPE/AP with LED display to show and configure it Channel, IP address and Signal Strength. Comply with IEEE 802.11b/g/n standard, adopt Qualcomm QCA9531 chipset, 14dBi dual polarized high gain antenna, 1000mW/29dBm high power, the transmit/receive wireless distance more than 3500 meters.

It support Wireless AP, Gateway, WISP, Wireless Bridge, WDS operation mode, effective solution for PTP, PTMP application and outdoor long range Wi-Fi coverage application. What's more, it is easy to setup CPE-830D's IP address, RF Power, Channels by setup the switches on product, no need to access into GUI, avoid the complex setup program, simple to check the working status.

And it support special frequency from 2.312GHz to 2.4835GHz, total 27 channels, together with Wi-Fi channel analysis tool, it make this outdoor CPE choose the best channel to avoid the Wi-Fi Interference, to guarantee the stable wireless connection.

CPE-830D with ABS waterproof, dustproof and sunscreen shell, temperature adaptive; Then PCB board support ESD protection, Meantime, it support Power over Ethernet, support passive PoE, easy in setup even no power socket nearby, ideal for outdoor use;

Besides that, CPE-830D with LED signal lights to show signal strength, easy to find a suitable place of outdoor CPE, then firmware comply with AC controller system and Cloud Management System, which helpful in central management and data setting, to implement Advertisement and authentication function, save much human work and cost, more professional in outdoor wireless networking solution.

Packing and Accessory:



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Specification:

Hardware:

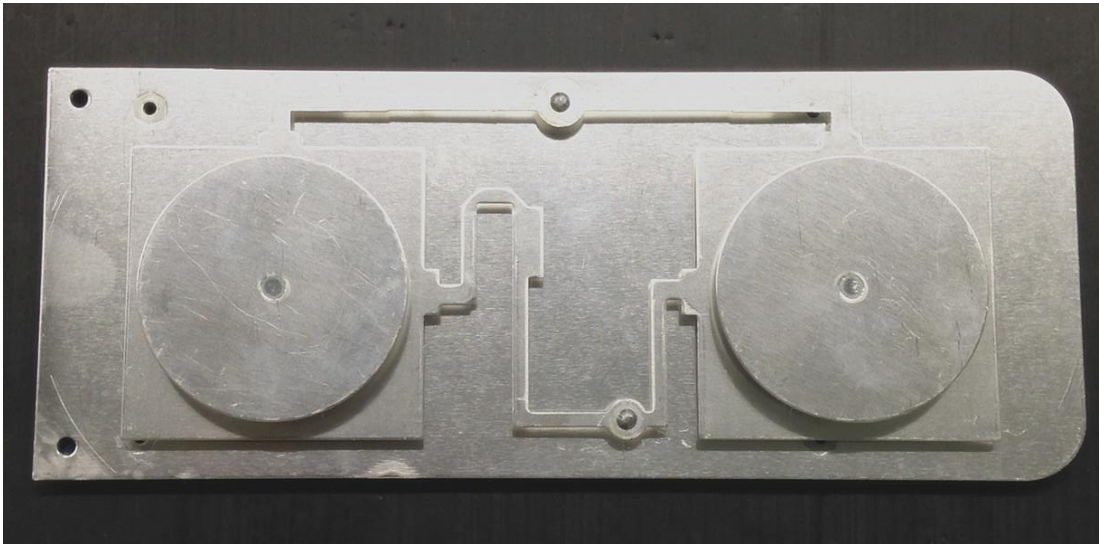
Chipset	Qualcomm 9531
Wireless	802.11N, 2T2R 300M MIMO Technology
Memory	64MB DDR2 RAM (128MB available by extra cost)
Flash	16MB
Interface	2 *10/100Mbps RJ45 Port, support 12~24V PoE
	1 * Reset Button
	1 * DC Injector, 12V/1A
	1 * LED display
	1 * F(Function) switch button
	1 * S(Select) button, press it to setup WDS PTP/PTMP connection
Antenna	14dBi Panel Antenna
LED Light	POWER Wi-Fi WAN LAN S1(GPIO9) S2(GPIO14) S3(GPIO11) S4(GPIO12)
Size	260mm * 85mm * 45mm
Power	12V(POE 24V)/1A;110V/220V
RF Data	
RF Data	802.11b/g/n:
	2.312GHz to 2.4835GHz
	Korea, Japan, ETSI, FCC, Debug
Modulation	OFDM = BPSK,QPSK, 16-QAM, 64-QAM
	DSSS = DBPSK, DQPSK, CCK
Data Rate	300Mbps
Receive Sensitivity	802.11n: @MCS7:25±2DB, @MCS0:27±2DB. 802.11g: @54M:26±2DB, @6M:28±2DB. 802.11b: @11M:27±2DB, @1M:29±2DB
RF Output Power	802.11n: -70dbm@MCS7, -88dbm@MCS0. 802.11g: -72dbm@54Mbps, -88dbm@6Mbps. 802.11b: -85dbm@11Mbps, -94dbm@1Mbps.
EVM	802.11n: ≤-28 DB 802.11g: ≤-25 DB 802.11b: ≤-10 DB
PPM	±20ppm
End User	64

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Firmware	
Operation Mode	Wireless AP, Gateway, WISP, Wireless Bridge
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)
	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
Physical Property:	
Temperature	Working: -20°C~55°C
	Storage: -40°C to 70°C
Humidity	5%~95% (typical)
Package:	
WNOR900 unit	
PoE Adapter	
User Manual	
LAN Cable	
Setting Accessory	

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Antenna Data:



Frequency range (MHz)	2400~2500
Polarization	Vertical and Horizontal
Gain (dBi)	2x14
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

Application:

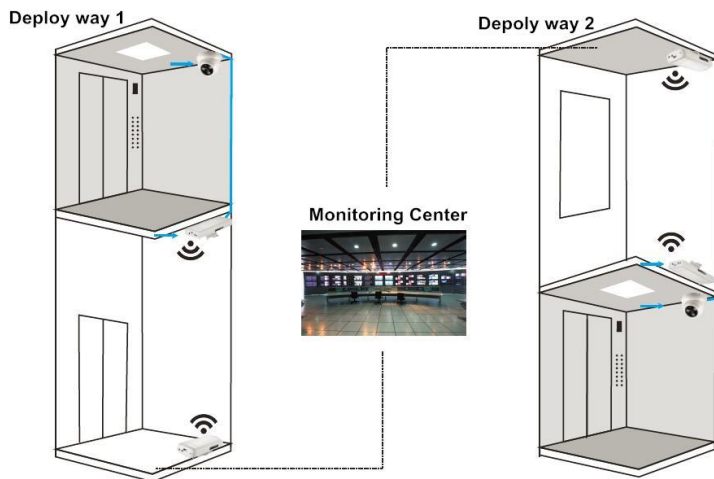
1. Work with IP Camera for PTP, PTMP, MPTMP connections:

A. Supply power for IP camera if PTP connection: Outdoor CPE will be powered by PoE adapter, then can supply power for IP camera from CPE's DC port, cost saving and easy setting.

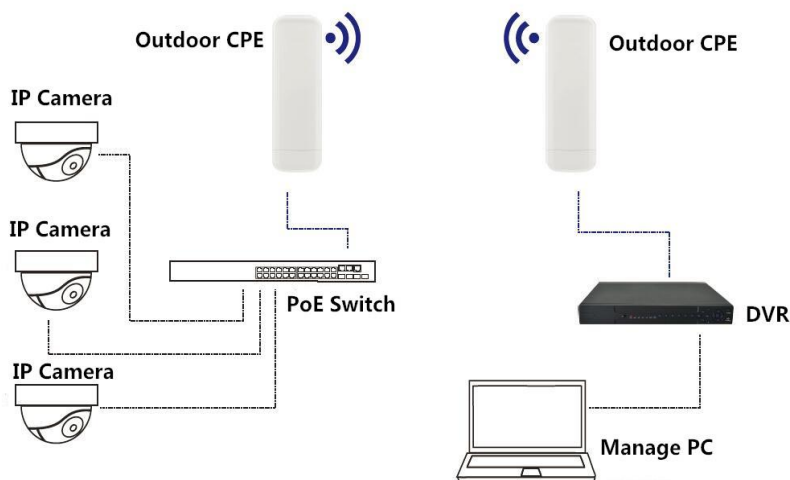
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B. Outdoor CPE work with IP camera in elevator.

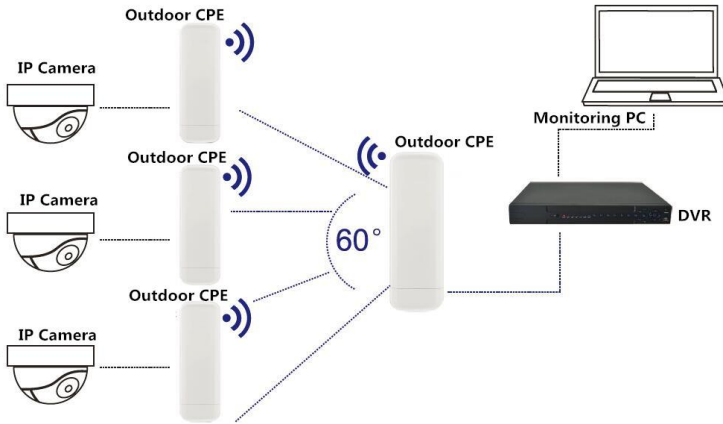


C: Outdoor CPE work with IP Camera in PTP Connection:

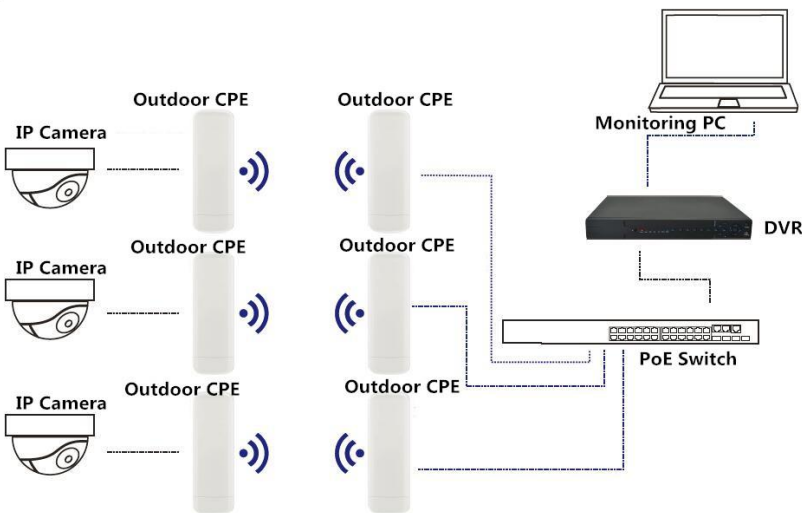


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D. Outdoor CPE work with IP camera in PTMP Connection:



E. Outdoor CPE work with IP Camera in MPTMP:



2. Outdoor CPE apply to Wi-Fi Coverage:

