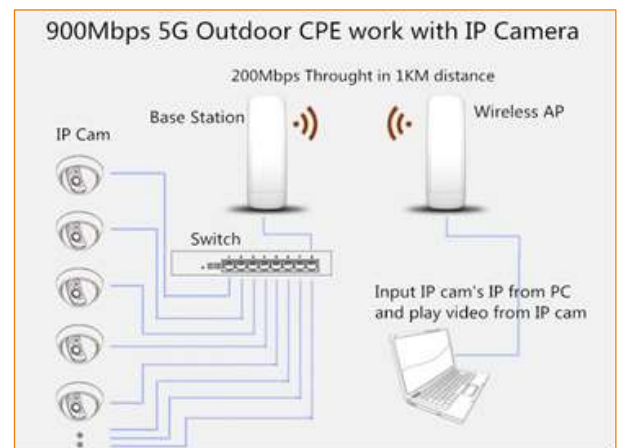
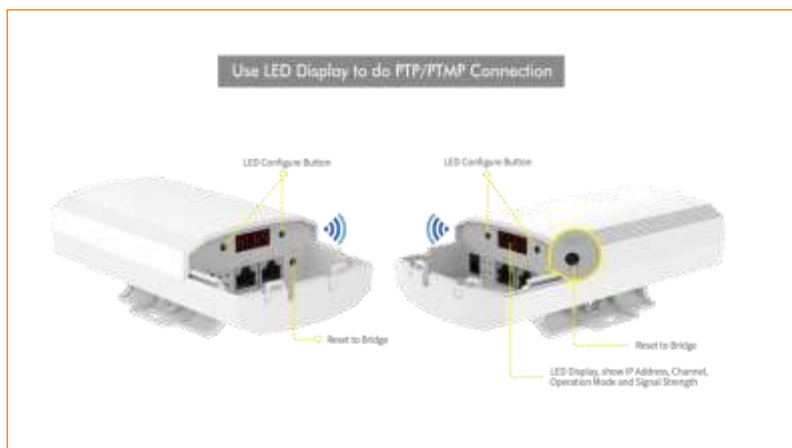


### Product Overview

**DC850 is an high power industrial 5G outdoor CPE with 5KM PTP/PTMP range. Comply with the next generation 802.11ac Wi-Fi standard, combined 900Mbps high speed in 5G, equipped Gigabit WAN port. It make more than 50 end users can access into it. It with LED display to show and configure CPE's operation mode, Channel, IP address and Signal Strength, simple to do the Point to Point connection by reset button, no need to access into GUI.**

### Main Features

- Comply with IEEE 802.11ac/a/n, 5GHz,900Mbps Data Rate
- 1\*10/100/1000Mbps WAN Port, 1\*10/100/1000Mbps LAN Port
- 300mW high power, build in 15dBi MIMO panel antenna, stronger signal strength, more wireless coverage
- Support 48V IEEE 802.3af PoE, passive PoE, 24V is optional
- Support SSID broadcasting, Muilti SSID up to 4, then support tag VLAN based on SSID.
- Support Gateway (PPPOE, static IP, dynamic IP), Wireless AP, Repeater, WISP, WDS operation mode
- With function of build in firewall, IP filter, URL filter and MAC filter
- Comply with IEEE 802.3az standard, RF power adjustment and frequency analyzer for better application in different environment
- Support DDNS, VPN pass through, Port forwarding and DMZ host
- Support 64/128-bit WEP security, 128bit WPA (TKIP/AES) security



### 900Mbps Data Rate & Gigabit WAN/LAN Ports

**DC850** features 802.11ac Wi-Fi and 2\*2 MIMO technology, 900Mbps wireless speed. Equipped with Gigabit Ethernet port ensures high speed internet access and more end users access.

### 5GHz frequency, more channels, lower latency, higher stability

**DC850** with full frequency of 5020~6100MHz, more than 200 channels available, it avoid the frequency interference problem, full meet with data transmission in fast speed, low delay, high stability requirement in wireless security or data transmission.

### 5KM PTP/PTMP Distance

Designed in two line Power Amplifier on PCB board, the power can be 300mW high power, high gain panel antenna, greatly increase the Wi-Fi range to **5KM** distance, then supply the stable Wi-Fi signal for users.

### LED Display

**DC850** with LED display to show AP/Client operation mode, Channels, IP address and RF Power; What's more, it is easy to setup **DC850** operation mode, IP address, Channels by set switch on product, no need to access into GUI, avoid the complex setup program, simple to check the working status.

### Power over Ethernet

**DC850** has integrated IEEE802.3af 48V PoE, (passive Power over Ethernet is optional), for easy installation and lower cost. So it can be installed in areas where power outlets are not readily available, eliminating the mess of altering existing network infrastructure.

Indoor/Outdoor Application,  
More than 5000 meters Wi-Fi Range



Hardware					
Chipset	Qualcomm QCA9563+QCA9886+QCA8334				
Standard	802.11ac/a, MIMO technology				
Memory	128MB DDR2 RAM				
Flash	16MB				
Interface	1 * 10/100/1000Mbps RJ45 WAN Port				
	1 * 10/100/1000Mbps RJ45 LAN Port				
	1 * LED display, 1 * F(Function) switch button, 1 * S(Select) button, press it to setup WDS PTP/PTMP connection				
	1 * Reset button, press 15 seconds to revert to default setting/press 1 seconds to finish the WDS PTP/PTMP connection				
Antenna	Build in 15dBi MIMO Panel Antenna				
Power consumption	48V PoE, <15W				
ESD	±6KV				
Surge	±2KV				
Water Proof Level	IP65				
Size	260mm * 85 mm * 45mm				
RF Data					
Frequency	5GHz: 802.11a/ac				
	5GHz: Standard: 5150~5825MHz, Debug: 5020~6100MHz				
Throughput	900Mbps				
Modulation	OFDM = BPSK,QPSK, 16-QAM, 64-QAM				
	DSSS = DBPSK, DQPSK, CCK				
Receive Sensitivity& RF Power					
RF Power	802.11a	54M	22±2dBm	6M	25±2dBm
	802.11n HT20	MCS7	21±2dBm	MCS0	24±2dBm
	802.11n HT40	MCS7	20±2dBm	MCS0	23±2dBm
	802.11ac HT80	MCS9	19±2dBm	MCS0	22±2dBm
Receive Sensitivity	802.11a	54M	-72dBm	6M	-90dBm
	802.11n HT20	MCS7	-70dBm	MCS0 .	-88dBm
	802.11n HT40	MCS7	-68dBm	MCS0 .	-86dBm
	802.11ac HT80	MCS9	-58dBm	MCS0 .	-85dBm
EVM	802.11a: ≤-25 dB; 802.11n: ≤-28 dB; 802.11ac: ≤-32 dB				

Firmware Features	
Operation mode	Wireless AP, Client
Wireless Security	64/128-bit WEP, WPA / WPA2, WPA-PSK/ WPA2-PSK encryption
SSID	Multiple SSID up to 4
Firewall	DoS, SPI Firewall, IP Address Filter/MAC Address Filter/Domain Filter IP and MAC Address Binding
Protocols	IPv4
Others	
Package Contents	900Mbps Dual Band wireless access point Ethernet Cable Quick Installation Guide Setting Accessory
System Requirements	Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7, Windows 8, MAC OS, NetWare, UNIX or Linux
Environment	Operating Temperature: -30~55 °C Storage Temperature: -40~70 °C Humidity: 5%~95% non-condensing
Management	Firmware GUI ,Remote Management, WLAN Controller, Cloud Management System

### Antenna Specification

Frequency Range	5.8GHz
Impedance	50 Ohms nominal
Gain	18dBi
Radiation	Directional
Polarization	Vertical and Horizontal

#### S-Parameters (5.8G)

