

### Product Overview

*PTP DC5ACL is an 11ac 900Mbps long range outdoor PTP; 500+Mbps throughput in 10KM distance a result of powerful hardware platform with 802.11ac technology based radio and a proprietary data transmission protocol (TDMA). Incorporating the QCA9563 CPU (750 MHz), the QCA9886 radio and 128MBytes of RAM and 16MBytes of Flash memory. It has 29dBi high gain Dish Antenna. DC5ACL becomes the preferred product for long-distance point-to-point connections.*

*DC5ACL supports 20Km distance PtP connection with 80Mbps bandwidth.*

### Main Features

- Used special TVS lightning protection device improves the ability of the product in bad environment
- With **29dBi** high gain dish antenna, up to **20km**
- Supports 48V standard POE and 12VDC power supply
- Support TDMA
- Support ATPC
- **500+Mbps**
- Support one click pairing
- **80,000PPS**
- Support IPv6



### Product Highlight

	Distance(Km)	Bandwith(Mbps)
<b>DC5ACL</b> distance and bandwidth recommendation	20Km	80+Mbps
	10Km	500+Mbps

## SPECIFICATIONS

## 11ac 900Mbps Outdoor PtP Wireless Bridge

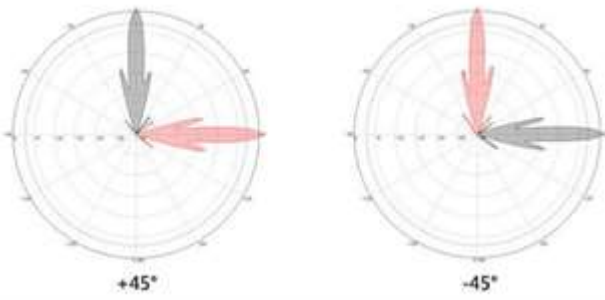
Hardware	
Chips	QCA9563+QCA9886+QCA8334
Flash	SPI NOR 16MB
DDR	DDR2-128MB
WAN	1×10/100/1000 Base-T, RJ45, 48V PoE power supply
LAN	1×10/100/1000 Base-T, RJ45
Led	Power, Wan, Lan, Wireless, RSSI×4
ESD	±6KV
Surge Test	Line to line ±2KV
Power supply	12V 1.5A DC or 48V 0.5A PoE (48V PoE adapter is included in the package)
Power consumption (max)	<15W
Slide Switch	One key setting master or slave
Reset key	Press the key for 2 ~ 5 seconds to pair automatically, press and hold for 10 seconds to restore the factory default configuration
Dimensions	186 mm (Length)× 86mm (width )× 33mm (height )
Weight	TBD
Mounting	Combination wall / pole mount included
Protective class	IP65
Operating temperature	Normal - 30 ° C to + 55 ° C, limit - 40 ° C to + 70 ° C
Humidity	5 ~ 95 % (non-condensing)

Wireless					
WLAN standard	IEEE 802.11 a/n/ac wave2, TDMA				
Radio mode	TDMA MIMO 2x2				
Radio frequency band	5150~5850MHz				
Transmit power	Up to 26 dBm (country dependent)				
Receive sensitivity	Varying between -90 and -58 dBm depending on modulation				
Channel size	20, 40,80 MHz				
Modulation schemes	802.11 a/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK)				
	802.11 ac: OFDM (256-QAM, 64-QAM, 16-QAM, QPSK, BPSK)				
Data rates	802.11 ac @ 40 MHz: 400, 360, 300, 270, 240, 180, 120, 90, 60, 30 Mbps				
	802.11 ac @ 80 MHz: 866, 780, 650, 585, 520, 390, 260, 195, 130, 65 Mbps				
Error correction	FEC, LDPC				
Duplexing scheme	Time division duplex				
5.8G TX Power	802.11a	54M	21±2dBm	6M	24±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
5.8G 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
5.8G EVM	802.11a: ≤-25dB ; 802.11n: ≤-28 dB ; 802.11ac: ≤-32 dB				

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Software	
Wireless operating modes	Access point (auto WDS), access point (TDMA3 ), station (WDS, TDMA3 ), station (ARP NAT)
Wireless techniques	Smart station polling, smart auto-channel, adaptive auto modulation, automatic transmit power control (ATPC)
Wireless security	WPA/WPA2 personal, WPA/WPA2 enterprise, WACL, user isolation
Wireless QoS	4 queues prioritization on TDMA
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, WNMS, Telnet
Tools	Site survey, link test, antenna alignment

Antenna			
			
<b>Type</b>	Dual polarization dish antenna	<b>Cross-pol Isolation</b>	30 dBi
<b>Gain</b>	29dBi	<b>VSWR</b>	<1.8
<b>Frequency range</b>	5180 -5850 MHz	<b>Azimuth beam width(H pol)</b>	6°
<b>Gain</b>	29 dBi	<b>Azimuth beam width(V pol)</b>	6°
<b>Polarization</b>	±45°	<b>Elevation beam width</b>	6°

Accessories	
CPE	1
Dish antenna	1
PoE adapter	1
Guide manual	1
Gift Box	1