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WIRELESS AND BROADBAND

DIGISOL Outdoor 900Mbps 5GHz Point to Point 20Kms with Dish Antenna

DG-WA5ACL20

Key Features:-

- 900Mbps 11ac Standard on 5GHz.
- With 29dBi high gain dish antenna, up to 20 km.
- Supports 48V standard PoE and 12V DC power supply
- Support TDMA , ATPC
- Support one click pairing
- Support Ipv6
- Used special TVS lightning protection device improves the ability of the product in bad environment



Introduction:-

DIGISOL DG-WA5acl20 is an 11ac 900Mbps long range outdoor PTP; Powerful hardware platform with 802.11ac technology based radio and a proprietary data transmission protocol (TDMA). Incorporating a QCA 9563 CPU (750 MHz), a QCA 9886 radio and 128 MBytes of RAM and 16 MBytes of flash memory, with 29dBi high gain dish antenna, the DG-WA5acl20 becomes the preferred product for long-distance point-to-point.



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Technical Specifications:-

HARDWARE SPECIFICATIONS					
ITEM	DG-WA5ACL20				
Hardware					
Chips	QCA9563+QCA9886+QCA8334				
Flash	SPI NOR 16MB				
DDR	DDR2-128MB				
WAN	1x10/100/1000 Base-T, RJ45, 48V PoE power supply				
LAN	1x10/100/1000 Base-T, RJ45				
LED	Power, Wan, Lan, Wireless, RSSIx4				
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) x 86mm (width) x 33mm (height)				
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; 802.11 ac: ≤-32 dB				



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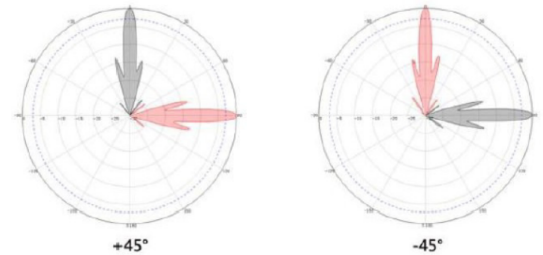
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Technical Specifications:-

FIRMWARE SPECIFICATIONS	
ITEM	DG-WA5ACL20
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 Specification:

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



Accessory:

CPE	1
Dish Antenna	1
PoE Adapter	1
Guide Manual	1
Gift Box	1

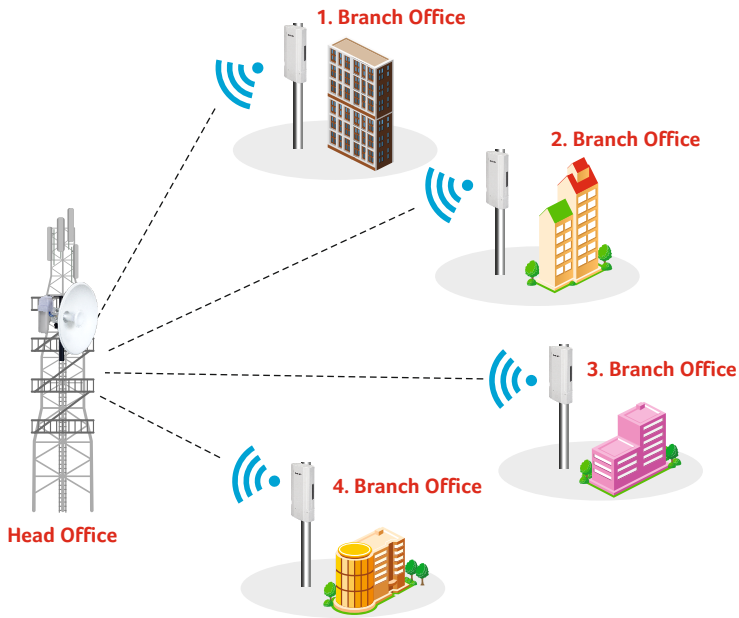


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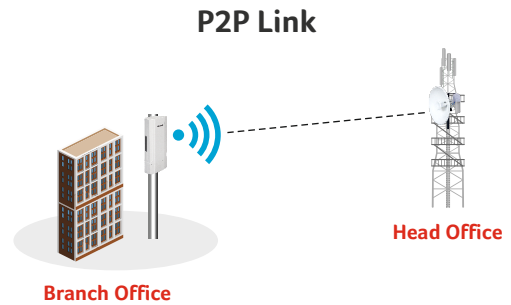
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Application Examples

PtMP Client Links

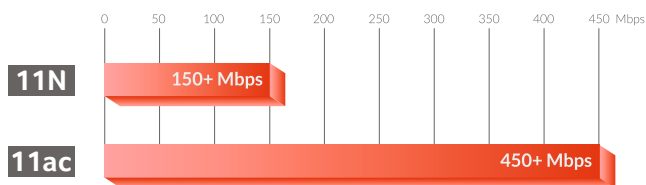


The DG-WA5ACL20 used as a CPE device for each client in an Point-to-MultiPoint (PtMP) network.



Use a DG-WA5ACL20 on each side of a Point-to-Point (PtP) link.

Performance



Ordering Information:-

DG-WA5ACL20: DIGISOL 5GHz 900Mbps Wave2 Outdoor P2P 20Kms PoE AP with Dish Antenna

*Warranty shall be subject to terms and conditions specified in the DIGISOL PRODUCT WARRANTY displayed on the website of the company.

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