

# DH-PFWB5-30ac

## 5GHz AC867 15dBi Outdoor Wireless CPE



#### **Product Overview**

500+ Mbps throughput- a result of 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 9882 radio and 64 MBytes of RAM and 16 MBytes of flash memory the, DH-PFWB5-30ac series devices are an ideal solution for capacity demanding applications. State of the art RF design with great output power and sensitivity parameters improve range and capacity over the highest modulation- 256 QAM. The 24V Gigabit Ethernet port (passive PoE) allows utilizing the full capacity of the radio when used in a point-to-point or point-to-multipoint network design. DH-PFWB5-30ac series devices are backwards compatible with DaHua wireless devices using TDMA mode, which helps to expand or upgrade existing networks using the latest technologies over time.

### **Features**

- · Integrated 5 GHz (2x2) MIMO radio
- Frequency 5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz)
- · High performance and stability
- IP-66 standards rated enclosure
- Improved noise immunity
- TDMA ensures reliable communication
- Powerful OS
- Dual firmware
- Built-in tools including Site Survey, Link Test, Antenna Alignment, Spectrum Analyzer, Ping & Trace help in configuration and debugging
- $\cdot$  Recommended for 0~3km PTP/PTMP wireless connection(as a station in PTMP link)

Technical Specification						
Model	DH-PFWB5-30ac					
Wireless						
WLAN Standard	IEEE 802.11 a/n/ac					
Radio Mode	MIMO 2x2					
Radio Frequency Band	5.150 - 5.850 GHz (FCC 5.150 - 5.250 and 5.725 - 5.850 GHz)					
Transmit Power	Up to 30 dBm (country dependent)					
Receive Sensitivity	Varying between -97 and -75 dBm depending on modulation					
Channel Size	5,10,20,40, 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					
Transmission Distance	0-3km (recommended), max≥5km					
Antenna						
Туре	Integrated directional panel antenna					
Gain	15dBi					
Wired						
Interface	10/100/1000 Base-T, RJ45					

Technical Specification					
Software					
Wireless Operating Modes	Access point (auto WDS), access point (TDMA), station (WDS, TDMA), station (ARP NAT)				
Wireless Techniques	Smart station polling, smart auto-channel, adaptive auto modulation, automatic transmit power contro (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, Telnet				
Tools	Site survey, link test, antenna alignment				
Physical					
Dimensions	128 mm (length)× 97mm (width )× 40mm (height )				
Weight	200 g				
Mounting	Pole mounting bracket included				
Power					
Power Supply	12-24 VDC passive PoE (24 V passive PoE adapter is included in the package)				
Power Source	100 – 240V AC				
Power Consumption (max)	10W				
Environmental					
Operating Temperature	-30°C ~ +70°C				
Humidity	0 ~ 90 % (non-condensing)				
Management					
System Monitoring	SNMP, Syslog, Web UI, DWMP				
Regulatory					
Certification	FCC/CE				
Internal Antenna					
Frequency Range	5.1- 5.9 GHz				
Gain	15 dBi				
Polarization	Dual linear				
Cross-pol Isolation	21 dBi				
VSWR	<1.4				
Azimuth Beam Width (H pol)	30°				
Azimuth Beam Width (V pol)	30°				
Elevation Beam Width	30°				

Technical Specification										
Receive Sensitivity (dBm)	802.11 ac (40MHz)	400 Mbps	360 Mbps	300 Mbps	270 Mbps	240 Mbps	180 Mbps	120 Mbps	90 Mbps	
		-70	-72	-76	-78	-80	-84	-87	-92	
		60 Mbps	30 Mbps							
		-94	-95							
	802.11 ac (80MHz)	866 Mbps	780 Mbps	650 Mbps	585 Mbps	520 Mbps	390 Mbps	260 Mbps	195 Mbps	
		-64	-66	-70	-72	-74	-78	-81	-85	
		130 Mbps	65 Mbps							
		-88	-90							
Output Power (dBm, combined)	802.11 ac (40MHz)	400 Mbps	360 Mbps	300 Mbps	270 Mbps	240 Mbps	180 Mbps	120 Mbps	90 Mbps	
		26	27	28	29	30	30	30	30	
		60 Mbps	30 Mbps							
		30	30							
	802.11 ac (80MHz)	866 Mbps	780 Mbps	650 Mbps	585 Mbps	520 Mbps	390 Mbps	260 Mbps	195 Mbps	
		24	25	25	26	27	28	28	29	
		130 Mbps	65 Mbps							
		29	29							

# Dimensions (mm)





