

DH-PFWB5-30n

5GHz N300 15dBi Outdoor Wireless CPE



Product Overview

The DH-PFWB5-30n is a versatile, very efficient, and stable 5 GHz CPE. This product is equipped with an extreme output power (up to 29 dBm) 802.11n MIMO radio wrapped securely inside a robust, well designed and a small form factor enclosure. The robust hardware is coupled with a 15 dBi directional panel antenna; ideal for short to medium range applications.

Smart dynamic polling based protocol (TDMA) ensures reliable communication even in congested areas with 64 client devices connected to a base-station.

Equipped with Dahua's dual firmware image feature, remote software upgrades are assured even if a power failure interrupts the process. The device will restart using the prior firmware in the event of an upgrade failure.

The enclosure is made of polycarbonate plastic with UV inhibitors to provide years of outdoor exposure in direct sunlight without cracking. The DH-PFWB5-30n was designed and tested to meet an IP-65 rating as well as vibration, temperature, drop, salt, fog, and electrical surge standards to ensure a high level of reliability and backed by a two-year warranty. It is equipped with a grounding lug and a grounded 24-volt PoE to allow a professional installation, resistant to electrical surges.

Features

- · Integrated 5 GHz (2x2) MIMO radio
- Frequency 5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz)
- Miniaturized design
- · High performance and stability
- IP-65 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
- Recommended for 0~3km PTP/PTMP wireless connection (as a station in PTMP link)

Technical Specification							
Model	DH-PFWB5-30n						
Wireless							
WLAN Standard	IEEE802.11 a/n						
Radio Mode	MIMO 2x2						
Radio Frequency Band	Frequency 5.150 - 5.850 GHz (FCC 5.150 - 5.250 and 5.725 - 5.850 GHz)						
Transmit Power	Up to 29 dBm (country dependent)						
Receive Sensitivity	Varying between -97 and -75 dBm depending on modulation						
Channel Size	5,10, 20, 40 MHz						
Modulation Schemes	802.11 a/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK)						
Data Rates	802.11 n: 300, 270, 240, 180, 120, 90, 60, 30 Mbps 802.11 a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps						
Error Correction	FEC, Selective ARQ						
Duplexing Scheme	Time division duplex						
Transmission Distance	0-3km (recommended), max≥5km						
Antenna							
Туре	Integrated directional panel antenna						
Gain	15dBi						
Wired							
Interface	10/100 Base-T, RJ45						

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Technical Specification						
Software						
Wireless Operating Modes	Access point (auto WDS), access point (TDMA2), access point (TDMA3), station (WDS, TDMA2,TDMA3), station (ARP NAT)					
Wireless Techniques	Smart station polling, smart auto-channel, adaptiv 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, spectrum analyzer, ping & trace					
Physical						
Dimensions	128 mm (Length)× 97mm (width)× 40mm (height)					
Weight	200 g					
Mounting	Combination wall / pole mount 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)	4.5W					
Environmental						
Operating Temperature	-30°C ~ +70°C					
Humidity	0 ~ 90 % (non-condensing)					
Management						
System Monitoring	SNMP v1/2c/3 server, Syslogs, system alerts via e-mail and SNMP trap					
Regulatory						
Certification	FCC/CE					
Internal Antenna						
Frequency Range	5.1 – 5.9 GHz					
Gain	15dBi					
Polarization	Dual linear					
Cross-pol Isolation	27dBi					
VSWR	<1.4					
Azimuth Beam Width (H pol)	30°					
Azimuth Beam Width (V pol)	30°					
Elevation Beam Width	30°					

Technical Specification											
Receive Sensitivity (dBm)	802.11n/ TDMA (20/40 MHz)	15 Mbps	30 Mbps	45 Mbps	60 Mbps	90 Mbps	120 Mbps	135 Mbps	150 Mbps		
		-97	-95	-93	-88	-85	-81	-79	-77		
		30 Mbps	60 Mbps	90 Mbps	120 Mbps	180 Mbps	240 Mbps	270 Mbps	300 Mbps		
		-94	-92	-89	-85	-82	-78	-77	-75		
	802.11a	6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps		
		-97	-97	-95	-93	-90	-86	-82	-81		
Output Power (dBm, combined)	802.11n/ TDMA (20/40 MHz)	15 Mbps	30 Mbps	45 Mbps	60 Mbps	90 Mbps	120 Mbps	135 Mbps	150 Mbps		
		29	28	28	28	27	27	25	24		
		30 Mbps	60 Mbps	90 Mbps	120 Mbps	180 Mbps	240 Mbps	270 Mbps	300 Mbps		
		28	28	28	28	26	26	24	23		
	802.11a	6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps		
		29	29	29	29	29	27	26	25		

Dimensions (mm)





