DH-PFWB2-60n

2.4GHz N300 9dBi Outdoor Wireless CPE

Features

- Integrated 2.4 GHz (2x2) MIMO radio
- Frequency 2.402- 2.492GHz (FCC 2.412- 2.462 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
- Recommended for 0~3km PTP/PTMP wireless connection(as a station in PTMP link)

Product Overview

The DH-PFWB2-60n is a versatile, very efficient, and stable 2.4 GHz CPE. This product is equipped with an high output power (up to 31 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 9 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-PFWB2-60n 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.

Technical Specification

Model	DH-PFWB2-60n
Wireless	
WLAN Standard	IEEE 802.11 b/g/n
Radio Mode	MIMO 2x2
Radio Frequency Band	2.402 - 2.492GHz (FCC 2.412 - 2.462 GHz)
Transmit Power	Up to 31 dBm (country dependent)
Receive Sensitivity	Varying between -96 and -74 dBm depending on modulation
Channel Size	5,10, 20, 40 MHz
Modulation Schemes	802.11 g/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK) 802.11 b: DSS(CCK,DQPSK,DBPSK)
Data Rates	802.11 n: 300, 270, 240, 180, 120, 90, 60, 30 Mbps 802.11 g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11 b: 11,5.5,2,1Mbps
Error Correction	FEC, Selective ARQ
Duplexing Scheme	Time division duplex
Transmission Distance	0-3km (recommended), max≥5km
Antenna	
Type	Integrated directional panel antenna
Gain	9dBi
Wired	
Interface	10/100 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 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, Telnet
Tools	Site survey, link test, antenna alignment
Physical	
Dimensions	150 mm (length)× 115mm (width)× 55mm (height)
Weight	400 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	2.4- 2.5 GHz
Gain	9 dBi
Polarization	Dual linear
Cross-pol Isolation	23dBi
VSWR	<1.5
Azimuth Beam Width (H pol)	60°
Azimuth Beam Width (V pol)	60°
Elevation Beam Width	60°

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
		-95	-93	-91	-88	-83	-80	-78	-77
		30 Mbps	60 Mbps	90 Mbps	120 Mbps	180 Mbps	240 Mbps	270 Mbps	300 Mbps
		-92	-90	-87	-84	-81	-77	-76	-74
	802.11g	6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
		-96	-96	-94	-92	-89	-85	-81	-79
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
	802.11g	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)