

KX-PFWB5-30n

5GHz N300 15dBi Outdoor Wireless CPE

Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.



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	
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	
Type	Integrated directional panel antenna
Gain	15dBi
Wired	
Interface	10/100 Base-T, RJ45

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, 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, spectrum analyzer, ping & trace
Physical	
Dimensions	128 mm (Length)× 97mm (width)× 40mm (height)
Weight	200 g
Mounting	Combination wall / pole mount included

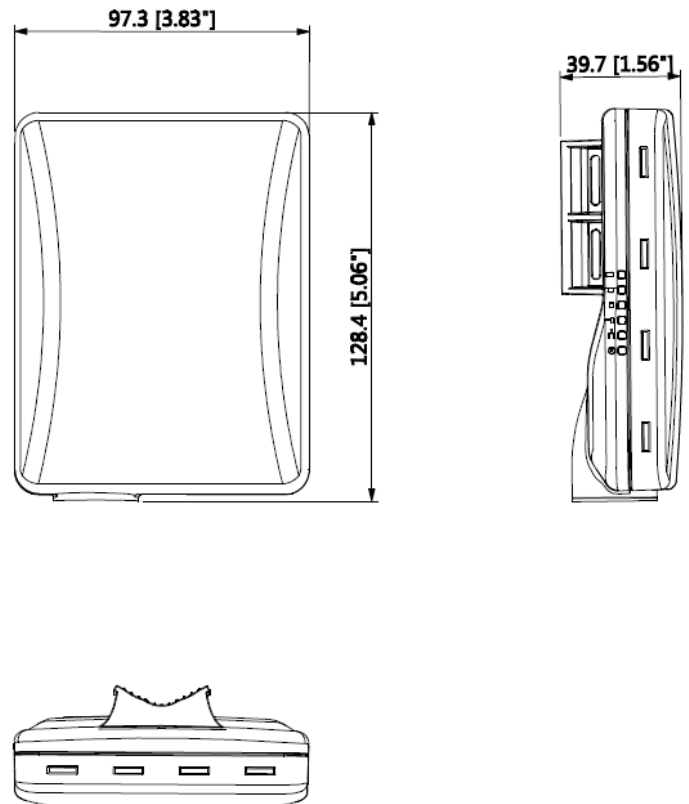
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Physical	
Dimensions	128 mm (Length)× 97mm (width)× 40mm (height)
Weight	200 g
Mounting	Combination wall / pole mount included
Power	
Power Supply	12- 24 VDC passive PoE (24 V passive PoE adapter is included in the package)
Power Source	100 – 240V 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
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°

Dimensions (mm)



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
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	