

# DH-PFWB5-10n

V-Radio Outdoor 11n 5G Wireless Bridge (CPE)



- **Strong signal:** With its enhanced antenna, the point-to-point transmission distance reaches up to 5 km (16,404.20 ft). **Wide operating temperature:**  $-30^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$  to  $+158^{\circ}\text{F}$ ). **Easy installation:** Supports multiple installation methods such as wall mount and pole mount. **High protection:** IP65 rated, it is suitable for outdoor scenes and withstands severe weather. **Strong broadband:** The bandwidth can reach up to 300 Mbps, ensuring there is no delay in transmission.



## Series Overview

DH-PFWB5 series is a line of PTP and PTMP base stations and customer premises equipment dedicated to last-mile and video surveillance applications. It offers a wide variety of devices ideal for Internet service providers and operators to run their networks using unlicensed bands. The powerful software platform with a proprietary communication protocol ensures smooth performance even in the most congested environments. The professional-grade integrated hardware design allows for quick return on investment and minimizes operational costs.

## MU-MIMO

This advanced technology allows multiple users to communicate through one single access point, which vastly improves wireless throughput.

## Scene

Suitable for internet access, video surveillance and use in rural areas.

## Functions

### TDMA Enhancement

Adopts TDMA (Time Division Multiple Access) technology to stabilize video transmission bandwidth, and to locate wireless transmission hidden nodes.

### Wide Operating Temperature ( $-30^{\circ}\text{C}$ to $+70^{\circ}\text{C}$ )

Supports working at ambient temperatures of  $-30^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ , and has built-in professional lightning-proof circuits that effectively reduce the impact of thunderstorms on network systems and improve system robustness, allowing the device to adapt to harsh environments.

### Enhanced Antenna

Features enhanced antenna gain for the stable transmission of wireless signals over long distances, and it has strong anti-interference capabilities.

### Minimal WEB

Designed with a minimalist graphical WEB, easy to operate, which improves configuration efficiency.

Technical Specification	
Hardware	
Sold in Pairs	Yes
Function Slots	1 × RJ-45 10/100/1000 Base-T
Power Supply	100 – 240 VAC
Power Consumption	Full load: 4.5 W
Memory	DDR 64 MB
Indicator Light	1 × PWR light 1 × LAN light 4 × RSSI LEDS
Performance	
Wireless Standard	5 GHz: 802.11a/n/ac
Operating Frequency	5.150 – 5.850 GHz (FCC 5.150 - 5.250 and 5.725 - 5.850 GHz)
Wireless Transmission Rate	802.11 n: 300, 270, 240, 180, 120, 90, 60, 30 Mbps 802.11 a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
Channel Width	5/10/20/40 MHz
Max. Output Power	CE EIRP: ≤23 dBm@5150-5250 MHz; ≤23 dBm@5250-5350 MHz; ≤27 dBm@5470-5725 MHz; ≤14 dBm@5725-5850 MHz FCC output power: ≤24 dBm@5150-5250 MHz; ≤24 dBm@5250-5350 MHz; ≤24 dBm@5470-5725 MHz; ≤30 dBm@5725-5850 MHz
Antenna Direction Angle	Horizontal: 10°, vertical: 10°
Transmission Distance	5000 m (16404.20 ft)
PoE	PoE In: 24 V/0.5 A PoE Out: NA
Function	
Operating Mode	AP (WDS)/WAP (TDMA2)/WAP(TDMA3)/Station (WDS/ TDMA2/TDMA3)/Wireless client (ARPNAT)
Equipment Management	WEB
Encryption Mode	WPA/WPA2-Personal; WPA/WPA2-Enterprise
Security Mechanism	ACL; user isolation
OFDMA	Yes
MU-MIMO	2 × 2
DFS	Yes
DHCP	Yes
Firmware Update	Web update
Software	DHCP server; SNMP server; NTP client; router advertisement daemon; ping watchdog

General	
Operating Temperature	−30 °C to +70 °C (−22 °F to +158 °F)
Storage Temperature	−40 °C to +85 °C (−40 °F to +185 °F)
Operating Humidity	5%–95%(RH), non-condensing

Net Weight	0.4 kg (0.88 lb)
Gross Weight	0.7 kg (1.54 lb)
Product Dimensions	185 mm × 185 mm × 65 mm (7.28 × 7.28 × 2.55) (L × W × H)
Packaging Dimensions	200 mm × 196 mm × 94 mm (7.87 × 7.71 × 3.70) (L × W × H)
Protection	IP66
Installation	Bracket mount
Certifications	CE; FCC
Packing List	1 × Device; 2 × Dowel Pin; 1 × Pole Mount Bracket; 1 × Power Cord; 1 × 24 V PoE Power Adapter; 1 × Quick Start Guide

Ordering Information		
Type	Model	Description
Wireless Transmission Device	DH-PFWB5-10n	V-Radio Outdoor 11n 5G Wireless Bridge (CPE)

Dimensions (mm[inch])

