

DH-WB5-8AC-20

Long Range 5GHz Wireless Bridge



Series Overview

The Dahua DH-WB5-8AC-20 Wireless Bridge adopts 802.11ac technology and MIMO 2x2 technology, operating in the 5 GHz frequency band to achieve wireless data transmission rates of up to 867 Mbps. With its built-in Gigabit Ethernet ports, it delivers high bandwidth and stable performance, supporting line-rate hardware forwarding at Gigabit speeds. Its high-gain antennas produce powerful signals, enabling wireless transmission distances of up to 20 km, making it well-suited for outdoor environments beyond visual line of sight. This wireless bridge is ideal for applications that require long-distance transmission, such as tourist attractions, forest fire prevention, and monitoring in agricultural settings.

Scene

It is suitable for use in large scenes that require wireless coverage such as forests, tourist attractions, farms and pastures.

Technical Specification

Hardware

Sold in Pairs	No
Function Slots	Port 1: 1 × RJ-45 10/100/1000 Mbps (WAN) Port 2: 1 × RJ-45 10/100/1000 Mbps (LAN)
Power Supply	PoE (802.3af) 12 VDC, 1.5 A
Power Consumption	Idling: 4.1 W Full load: 8.16 W
Memory	DDR 64 MB
Indicator Light	1 × WAN 1 × LAN 1 × SYS Indicator: 1–5

Performance

- Strong signal: With its 25 dBi dual polarized antenna, the point-to-point transmission distance reaches up to 20 km.
- Strong broadband: The bandwidth can reach up to 867 Mbps, ensuring there is no delay in transmission.
- Wide operating temperature: –30 °C to +70 °C (–22 °F to +158 °F).
- The device is IP54 rated and quickly adapts to harsh environments.

Wireless Standard	5 GHz: IEEE 802.11a/n/ac
Recommended Video Channels	15-ch 4-MP IPC
Operating Frequency	5 GHz: 5.150GHz–5.850 GHz
Wireless Transmission Rate	5 GHz: 867 Mbps
Channel Width	5 GHz: 5/10 MHz
Max. Output Power	5 GHz: 26 dBm
Antenna Direction Angle	8°
Receiver Sensitivity	802.11a 54M:-75 dBm 802.11a 6M:-92 dBm 802.11n HT20_MCS7:-72 dBm 802.11n HT20_MCS0:-90 dBm 802.11n HT40_MCS7:-69 dBm 802.11n HT40_MCS0:-88 dBm 802.11ac VHT20_MCS9:-65 dBm 802.11ac VHT20_MCS0:-88 dBm 802.11ac VHT40_MCS9:-62 dBm 802.11ac VHT40_MCS0:-86 dBm 802.11ac VHT80_MCS9:-59 dBm 802.11ac VHT80_MCS0:-84 dBm
Polarization	Dual polarization
Transmission Distance	20 km
PoE	PoE In : 802.3af

Function

Operating Mode	AP; Station
Equipment Management	WEB
Network Protocol	HTTP;TCP/IP;IPv4;UDP;DHCP;DNS;ARP;Telnet
Protection Mode	OPEN; WPA; WPA2; WPA-PSK; WPA2-PSK
Security Mechanism	MAC address filtering User Isolation
DHCP	Yes
Firmware Update	Web update

Software	Device Management: backup configuration information; restore configuration information; auto restart and restart immediately; firmware upgrade; time management (display time and NTP); system log; Network Function: VLAN configuration; DHCP server Wireless Function: hide SSID MAC Address Filtering: Wi-Fi Repeating; Auto Disable Wi-Fi User isolation: wireless network isolation; transmit power configuration; station limit: up to 64
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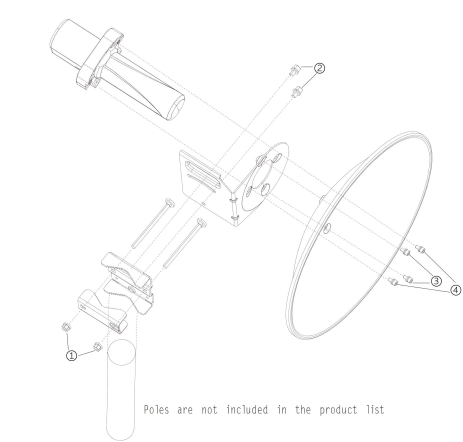
General

Operating Temperature	−30 °C to +70 °C (−22 °F to +158 °F)
Storage Temperature	−40 °C to +70 °C (−40 °F to +158 °F)
Operating Humidity	5%–95% (RH), non-condensing
Net Weight	2.2 kg (4.85 lb)
Gross Weight	5.69 kg (12.54 lb)
Product Dimensions	466 mm × 274 mm × 466 mm (18.35" × 10.79" × 18.35") (L × W × H)
Packaging Dimensions	540 mm × 540 mm × 145 mm (21.26" × 21.26" × 5.71") (L × W × H)
Protection	IP54
Statics Protection	Air discharge: 8 kV Contact discharge: 6 kV
Lightning Protection	Common mode: 2 kV Differential mode: 1 kV
Installation	Pole mount
Packing List	1 × Device 1 × Antenna Mount Component 1 × Power cord 1 × 48 V 0.5 A PoE Power Supply 1 × Quick Start Guide 1 × Legal and Regulatory Information 1 × QR code

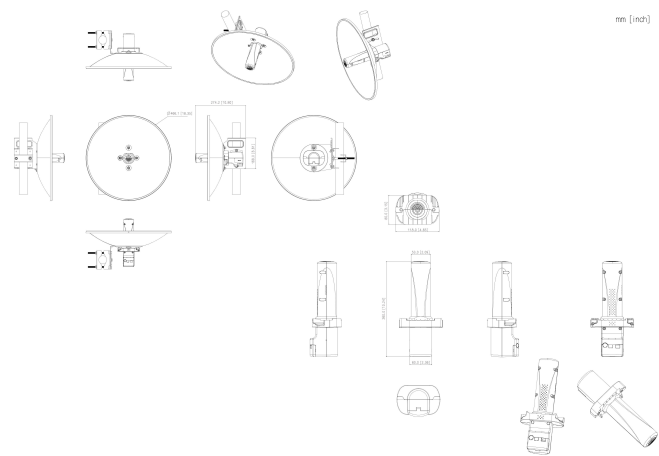
Ordering Information

Type	Model	Description
Wireless Bridge	DH-WB5-8AC-20	Long Range 5GHz Wireless Bridge

Installation



Dimensions (mm[inch])



Panels

