

WB6axH6-20 Product Specifications Document

Description:

YUNCORE® WB6axH6-20 is a high-performance, high-speed industrial-grade long-range WiFi 6E wireless bridge, featuring extended transmission distance, strong penetration capability, and robust anti-interference performance, etc.

Features:

- Built-in 20dBi dual-polarized directional panel antenna, with a maximum transmission distance of 16 km.
- Metal base shell, IP67 protection, enhancing operation in harsh environments.
- Supports VLAN transparent transmission, with optional GPS and Bluetooth customization.



Hardware Specifications	
6GHz Frequency Band	5.925GHz ~ 7.125GHz
6GHz WiFi Protocol	802.11 a / n / ac / ax
Antenna	Built-in 20dBi directional panel antenna
Wireless Speed	6GHz band delivers up to 2882Mbps access rate, PTP actual measured throughput exceeds 900+ Mbps
Tx Power	<24±2dBm
Interface and Button	1/10/100/1000Mbps Self-adaptive WAN Port, Supports PoE 48V power supply 1 Gigabit SFP Port 1/10/100/1000Mbps Self-adaptive LAN Port Reset Button (hold 6-10 seconds to restore factory defaults)
Status Indicator	PWR: Power indicator (Green: Solid on when powered; Off when unpowered). SFP: Gigabit SFP port indicator (Green: Off when disconnected; Solid on when connected; Blinking during data transmission). WAN: Gigabit WAN port indicator (Green: Off when disconnected; Solid on when connected; Blinking during data transmission). LAN: Gigabit LAN port indicator (Green: Off when disconnected; Solid on when connected; Blinking during data transmission). WiFi: WiFi indicator (Green: Solid on when WiFi is enabled and connected; Blinking while searching; Off when disabled).

	<p>L: Signal strength indicator (Green: Solid on if \geq set threshold; Off if $<$ threshold).</p> <p>M: Signal strength indicator (Green: Solid on if \geq set threshold; Off if $<$ threshold).</p> <p>H: Signal strength indicator (Green: Solid on if \geq set threshold; Off if $<$ threshold).</p>
Power Supply	DC2.0 12V $\overline{\text{---}}$ 1.5A, PoE 802.3at
Power Consumption	$< 12\text{W}$
Product Dimensions	218mm \times 243mm \times 64mm
Net Weight	1.53kg
Work Environment	<p>Working: -40°C to 70°C</p> <p>Storage: -40°C to 70°C</p> <p>Humidity: 5% ~ 95% (Non-Condensing)</p>

Software Features	
Status Display	Displays work mode, Network topology, Signal strength, CPU/memory usage, Real-time traffic rate, Device description
	LAN info, Wireless info, Bridge info, WAN info (gateway/WISP).
Work Mode	AP Mode, Bridge Mode, WISP Mode, Gateway Mode
CPE Management (AP/Bridge Mode)	Self-management function for bridges based on the proprietary GHCP protocol
Wireless Features	SSID Broadcast, Hidden SSID, Channel Selection, Encryption Method (NONE, WPA3-SAE, EAP), Max Client Limit (0-64), Virtual AP Support (2)
	Country Code, Client Isolation, DFS, Radio Mode (2 \times 2 MIMO/SISO)
	MAC Access Control: Supports Blacklist/Whitelist Mode to restrict specific MAC addresses from accessing WiFi
	Scheduled Shutdown
	BSSID Lock, Auto-Restart Policy (Watchdog Mechanism)
Security Center	URL Filtering
	IP Address Filtering
	MAC Address Filtering
	Port Mapping
	DMZ
Network Features	IPv4/IPv6
	Port Settings
	Ping
	Traceroute
	LLDP Settings

	Cloud Platform
	Static DHCP: Binds MAC addresses to fixed IPs, supports 32 rules
	Remote Login, VPN (IPsec/PPTP/L2TP)
Device Management	Configuration Management
	Scheduled Reboot
	Firmware Upgrade
	NTP 、 Manual & Host Time Synchronization
	System Log, Remote Log
	HTTP、 Telnet、 SSH、 SNMP
	Traffic Control Settings
	Time Group/IP Group Management
	DDNS Settings