

ZY-S2WHL-GW

Wi-Fi HaLow Gateway



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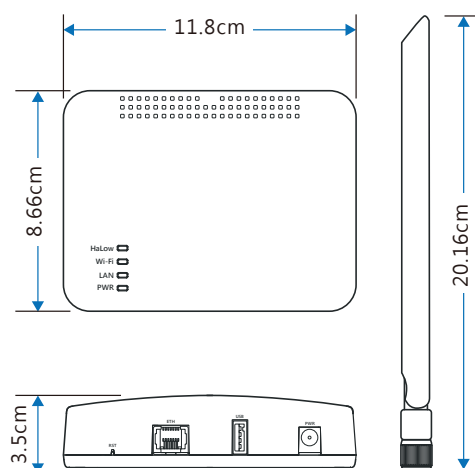
**2.4
GHz**

Dual-band
support

Federal
Communications
Commission


Description

The ZY-S2WHL-GW is a compact industrial IIoT gateway supporting Wi-Fi 4 and HaLow 802.11ah. Featuring dual-band technology and sub-GHz RF, it provides over 1 km coverage—10 times greater than 2.4 GHz Wi-Fi. It supports 8,000+ connections and ensures 150 Kbps stable data rates, making it ideal for real-time IIoT video streaming and reliable connectivity in complex industrial environments.



Features

- Dual-band technology integrates Wi-Fi 4 and HaLow for high compatibility
- Versatile connectivity with AP and Client modes for seamless scalability
- High-capacity networking supports 8,000+ stable connections
- Extended wireless coverage via sub-1 GHz and OFDM for large-scale setups
- Long-range data transfer provides 150 Kbps over 1 km distances
- High-speed video streaming for real-time IIoT monitoring and surveillance
- Superior signal penetration ensures stable links through walls and obstacles

Specifications

■ Wi-Fi HaLow (IEEE 802.11ah)

Chipset	Morse Micro MM6108
Wi-Fi Standard	IEEE 802.11ah (US: 915 MHz / EU: 866 MHz / JP: 920 MHz)
Channel Bandwidth	1/2/4/8 MHz (different by regions)
Date Rate	20 Mbps
Antenna Connector	1x SMA Jack
Antenna	1x dipole antenna

■ Wi-Fi 4 (IEEE 802.11n)

Chipset	MediaTek MT76X8
Flash	32 MB
RAM	128 MB
Wi-Fi Standard	IEEE 802.11n (2.4 GHz)
Channel Bandwidth	Wi-Fi 4: 20/40 MHz
Date Rate	150 Mbps
Antenna	Onboard

■ Software Features

Network Features	IPv4/IPv6 DHCP Client / Relay / Server NTP Client DNS Cache / Proxy
Wireless / Wi-Fi 4	Support multiple SSIDs Security: WEP 64/128, TKIP, WPA, WPA2 mixed, 802.1x and 802.11i
Wireless / Wi-Fi HaLow	Access Point / Station Security: WPA3
Mesh	802.11s

■ General

Ethernet	1x Fast Ethernet with ESD protection
Button	1x push-button (reboot/reset)
LED	1x HaLow 1x Wi-Fi 1x LAN/Ethernet 1x Power
Power Supply	DC 12V / 1A
Dimensions	11.8 (L) x 8.66 (W) x 3.5 (H) cm

■ Package Content

Package Content	ZY-S2WHL-GW HaLow antenna Power adapter
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■ Certification

Certification	FCC
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