Wi-Fi HaLow Gateway

HL31

Milesight

HL31 is a lightweight indoor Wi-Fi HaLow gateway. Adopting Wi-Fi HaLow technology and a high-performance quad-core CPU, HL31 supports setting up more than 200 node transmission at the same time with low power consumption. HL31 has a line of sight up to 1 km and supports data rates up to 32 Mbps, which is suitable for IoT sensors and picture camera applications. HL31 supports not only multiple back-haul backups with Ethernet and cellular, but also provides multiple VPN solutions to secure the data transmission to remote servers.

With compact size and various kinds of power supply options, it is an ideal supplement for wide indoor areas such as offices, parking lots, campuses, etc.

◆ Application Example

Wi-Fi HaLow

HL31

4G/Ethernet
Backhaul Connectivity

Cloud

◆ Features

- Industrial-grade quad-core CPU with ARM Cortex-A35 processor, providing high performance for data transmission
- Support up to 200 end-node connections
- Small in size for easy carrying & Deployment
- Desktop, wall, or ceiling mounting support
- Equipped with Wi-Fi for web GUI configuration
- Multi-backhaul backups with Ethernet and Cellular (4G)
- Secure transmission with VPN tunnels like IPsec/OpenVPN /GRE/L2TP/PPTP/DMVPN
- Function well with standard Wi-Fi HaLow sensors

◆ Specifications

Hardware System	
CPU	Quad-core 1.3GHz, 64-bit ARM Cortex-A35
Memory	256 MB DDR3
Flash	4 GB eMMC
Wi-Fi HaLow	
Standard	IEEE 802.11ah (1 × 1)
Antenna	1 × External Antenna
Channel Bandwidth	1/2/4/8 MHz
Frequency	850~850 MHz (AU, EU, IN, KR, NZ, SG, US)
Data Rate	Up to 32 Mbps
Sensitivity	-77.5 ~ -109 dBm
Output Power	21dBm Max
Mode	AP Mode
Security	WPA3-SAE
Cellular Interface (Optional)	
Network	4G LTE (CAT 4)/WCDMA/GSM
Antenna	1 x External Antenna
SIM Slots	1 (Micro SIM-3FF)
Ethernet Interface	
Port	1 × RJ45 WAN Port
Physical Layer	10/100 Base-T (IEEE 802.3)
Data Rate	10/100 Mbps (Auto-Sensing)

Interface	Auto MDI/MDIX
Mode	Full or Half Duplex (Auto-Sensing)

Wi-Fi

Standards	IEEE 802.11b/g/n, 2.4 GHz
Mode	AP Mode (Device Configuration Only)

Others

Button	1 × Reset Button
Console Port	1 × USB 2.0 (Type-C) for Power Supply and Console
LED Indicators	1 × SYSTEM, 1 x LTE
Built-in	Watchdog, Timer

Software

Network Protocols	PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, DNS, ARP, SNTP, Telnet, SSH, etc.
VPN Tunnel	OpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN

Power Supply and Consumption

Power Input	1. 5V by Type-C Port 2. 5~12V DC by 3.5mm 2-pin Terminal Block 3. 802.3af standard PoE input by (Optional) PoE Splitter

Physical Characteristics

Ingress Protection	IP30
Dimensions	Φ 115 x 21 mm (Φ 4.52 x 0.83 in) (Antenna Excluded)
Color & Material	Black, PC + ABS
Installation	Desktop, Wall or Ceiling Mounting

Environmental

Operating Temperature	-20°C to +50°C (-4℉ to +122℉)
Storage Temperature	-40°C to +85°C (-40℉ to +185℉)
Ethernet Isolation	1.5 kV RMS
Relative Humidity	0% to 95% (non-condensing) at 25°C/77℉
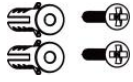
◆ Accessories

2 × Wall Mounting Kits   1 ×Type-C Cable & Power Adapter**   1 x PoE Splitter (Optional)**

Note:

* Contact us if you need any other special accessories or customized accessories.

**One of the Type-C Cable&Power Adapter and PoE Splitter can be provided as standard accessories, while the other can be offered as an optional accessory.