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PRODUCT BRIEF

HaLowLink 1

Long Range Sub-GHz Wi-Fi HaLow

IEEE 802.11ah Sub-1 GHz 1/2/4/8 MHz Bandwidth Wi-Fi HaLow All-in-one Router

Overview

Introducing the HaLowLink 1, your gateway to harnessing the full potential of Morse Micro's Wi-Fi HaLow. Our most consumer-ready connectivity solution yet, the HaLowLink 1 has been designed to elevate IoT and network infrastructure with seamless integration and extended range capabilities.

With its intuitive design and powerful capabilities, setting up a new network that supports Wi-Fi HaLow is easier than ever. The HaLowLink 1 functions as a Wi-Fi HaLow router, access point, and extender, allowing users to quickly create a network optimized for HaLow devices.

Paired with Morse Micro's MM6108 8MHz chipset, the Wi-Fi Certified HaLowLink 1 unlocks the extended range, low-power

advantages of Wi-Fi HaLow, making it ideal for IoT devices and expansive environments. Additionally, the MT7603E 2x2 802.11n 2.4GHz Wi-Fi solution seamlessly integrates traditional Wi-Fi, providing robust connectivity for non-HaLow devices.

With this combination of performance-driven components, the HaLowLink 1 is a powerhouse that ensures maximum flexibility, allowing for extended network range and capacity without compromise. Whether deploying it in a smart home, industrial setup, or agricultural network, the HaLowLink 1 offers a future-proof solution that adapts to both current and evolving connectivity needs.

Technical Specifications

Hardware features

- CPU: Mediatek MT7621
- Memory: 256 MB DRAM
- Storage: 32MB NAND Flash
- Radio: AzureWave AW-HM593 module incorporating a Morse Micro MM6108
- TX power: Up to 21dBm
- Power: 5V...2A
- Temperature range: 0 - 40°C
- Operating Humidity: 5% - 95%, non-condensing

Software features

- Based on OpenWrt 23.05
- Web UI and SSH/CLI configuration
- Status dashboard
- Wizards for easy configuration
- Streamlined software upgrades via online server

Supported regions

USA, Canada, Australia

Interfaces

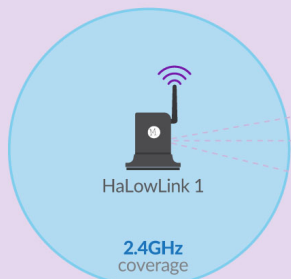
- 1x USB-C port (power and Ethernet data)
- 2x Gigabit Ethernet ports
- 2.4GHz 2x2 Wi-Fi (802.11n)
- HaLow Wi-Fi (802.11ah)
- Mode button

Device details

- Dimensions: 88 x 68 x 24mm
- Weight HaLowLink only: 102g
- HaLowLink + stand + antenna: 168g

Use cases

HaLowLink 1 isn't just about connectivity, it's about redefining what's possible in long-range, low-power networking.



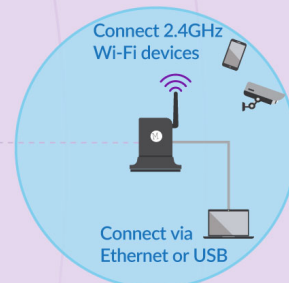
1 Connect Wi-Fi HaLow enabled devices

Connect Wi-Fi HaLow devices up to 10x farther than all other Wi-Fi



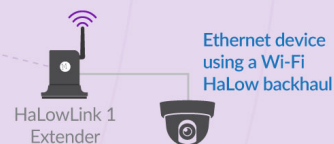
2 Connect devices to Wi-Fi HaLow networks

Use HaLowLink 1 to connect legacy devices to Wi-Fi HaLow networks extending their usable range. Connect to HaLowLink 1 via 2.4 GHz Wi-Fi, Ethernet or USB

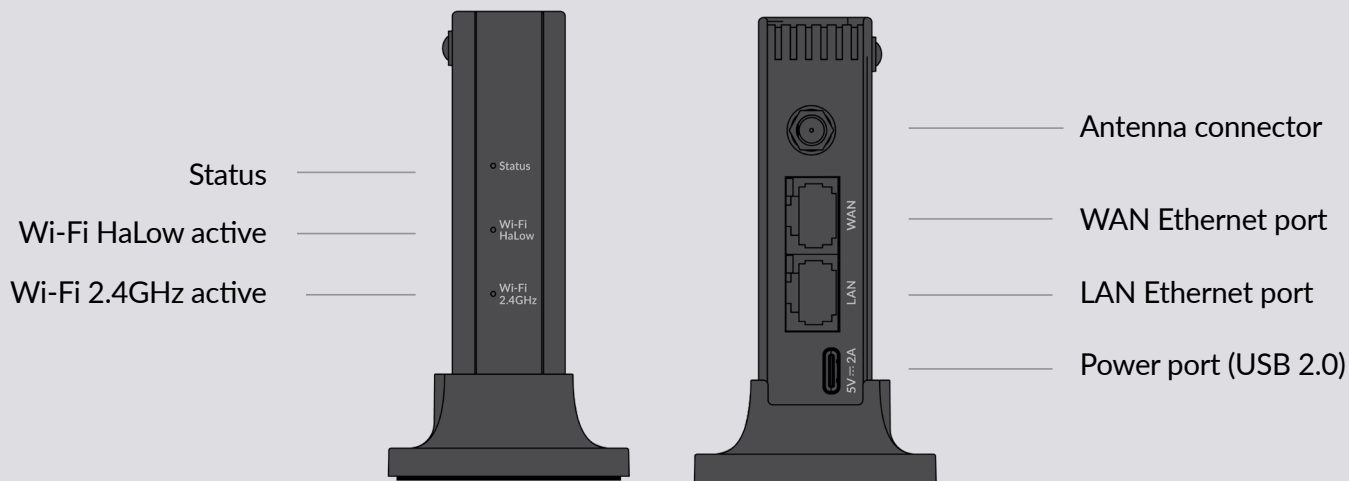


3 Virtual Wire

Replace Ethernet cables with 2x HaLowLink 1 devices for long-range wireless connectivity over Wi-Fi HaLow



Interface layout



For more product information: www.morsemicro.com

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