

Wi-Fi HaLow Sub-GHz Wireless Module

MM610X-001



Description

MM610X-001 is a Wi-Fi HaLow Sub-GHz wireless module based on the Morse Micro® MM6108 RF SOC. HaLow is a low-power, long-range version of the IEEE 802.11ah Wi-Fi standard, designed for IoT applications.

The module operates Sub-GHz and offers longer range and lower power connectivity. It complies with the Wi-Fi Alliance 802.11ah specification and is Wi-Fi CERTIFIED HaLow™. It provides excellent RF performance, with high sensitivity, selectivity, and blocking performance. The module also features a U.FL connector for an external Sub-GHz antenna.

It offers various IO interfaces including UART, SDIO, SPI, I2C, and GPIOs for PWM and switch functions. The module supports communication up to 2 kilometers Line of Sight (LOS), making it suitable for both indoor and outdoor IoT applications.

The MM610X-001 module delivers a UDP throughput of 20Mbps, offering superior capacity compared to other long-distance wireless IoT solutions. Its PHY data rate is 32.5Mbps. The module is certified with FCC, IC, CE, TELEC, NCC, and RCM.

In summary, the MM610X-001 module provides reliable and long-range connectivity for IoT applications, with excellent RF performance, versatile IO interfaces, and high throughput capabilities.

Wi-Fi CERTIFIED HaLow™ for IoT	
Features	Benefits
 Sub-1 GHz spectrum operation	 Long range: approximately 1 km
 Narrow band OFDM channels	 Penetration through walls and other obstacles
 Several device power saving modes	 Supports coin cell battery devices for months or years
 Native IP support	 No need for proprietary hubs or gateways
 Latest Wi-Fi® security	

Wi-Fi HaLow 11ah related reading:

[Discover Wi-Fi CERTIFIED HaLow - Wi-Fi Alliance](#)
[IEEE 802.11ah - Wikipedia](#)