

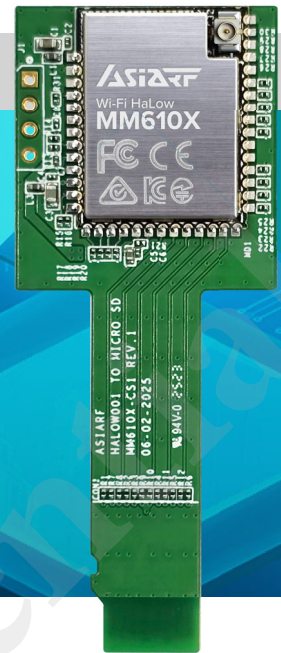
DATASHEET

SD Converter Card for Wi-Fi HaLow Module

MM610X-CS1



Federal
Communications
Commission



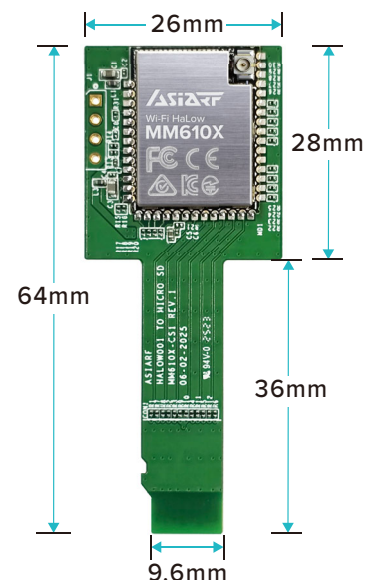
1. Description

MM610X-CS1 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.

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



Wi-Fi CERTIFIED HaLow™ for IoT

Features

- Sub-1 GHz spectrum operation
- Narrow band OFDM channels
- Several device power saving modes
- Native IP support
- Latest Wi-Fi® security

Benefits

- Long range: approximately 1 km
- Penetration through walls and other obstacles
- Supports coin cell battery devices for months or years
- No need for proprietary hubs or gateways

Wi-Fi HaLow 11ah related reading:

Discover Wi-Fi CERTIFIED HaLow - Wi-Fi Alliance
IEEE 802.11ah - Wikipedia

