

DATASHEET

Wi-Fi HaLow SDIO/USB Evaluation Board

MM8108-CS3



Description

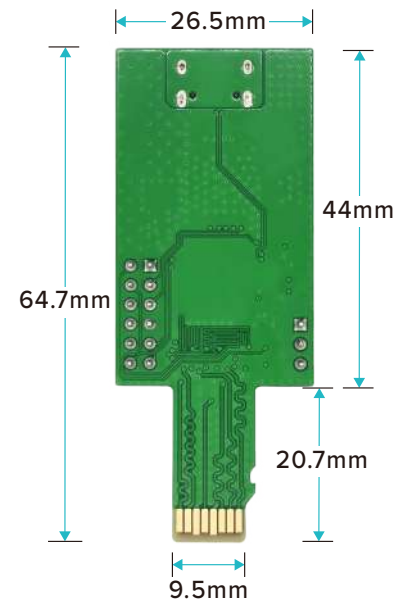
Powered by the Morse Micro® MM8108 SoC, a highly integrated IEEE 802.11ah Wi-Fi HaLow™ solution, the MM8108-CS3 delivers long-range, low-power wireless connectivity in Sub-GHz frequency bands. The module supports USB 2.0 High-Speed, SDIO 2.0 interfaces, enabling easy evaluation, development, and integration into Industrial IoT, smart metering, and smart infrastructure applications.

Operating in the license-exempt Sub-GHz frequency bands, the module complies with the IEEE 802.11ah Wi-Fi HaLow standard and delivers extended coverage, improved penetration, and lower power consumption compared to conventional Wi-Fi technologies.

Powered by the highly integrated MM8108 single-chip solution, the module combines RF, PHY, and MAC functions while supporting PHY data rates of up to **43.3 Mbps** using **256-QAM modulation with 8 MHz bandwidth**. The integrated power amplifier (PA) and low-noise amplifier (LNA) provide excellent transmission performance, receiver sensitivity, and reliable long-range communication.

The MM8108-CS3 supports **USB 2.0 High-Speed, SDIO 2.0 interfaces**, offering flexible integration into embedded systems, industrial gateways, networking equipment, and IoT devices. It also supports **WPA3 security**, ensuring secure and reliable wireless connectivity.

Equipped with a MHF-1/U.FL connector for external Sub-GHz antennas, the MM8108-CS3 is an ideal solution for smart metering, industrial automation, agriculture, asset tracking, and other large-scale IoT deployments.



For more detailed information, please contact our sales team: sales@asiarf.com / +886 2 2940 7880