

## Wi-Fi HaLow™ MCU Module

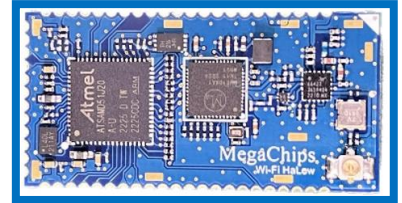
Part#: MRF61\_FI\_MCU

An MCU module for a rapidly-growing IEEE802.11ah (Wi-Fi HaLow™) solution. Simply add necessary sensors to complete a Wi-Fi HaLow enabled end-point product.

### ■ Features

1. **IEEE802.11ah (Wi-Fi HaLow™)**  
Supports the latest LPWA standard
2. **Designed for End-Point Application**  
All necessary building blocks are on-board.  
Just add your preferred sensors and it's ready to go
3. **Cloud Service Support**  
Optional secure element IC enables highly secure communication to the cloud such as Amazon AWS
4. **FCC/ISED Certified**

### ■ Top View



### ■ Specification

Wireless	IEEE802.11ah		Dimension	W:20mm x D:40mm x H:1.9mm
RF IC / MCU	Transceiver IC	MM6108 Morse Micro	Certification	FCC, ISED
	MCU	SAMD51 Microchip		
Interfaces	SDIO, SPI, I2C, I2S, UART, GPIO, ADC, DAC, PWM, COUNTER TCC, USB2.0		Antenna Connector	U.FL
			Secure Element IC	Optional
Data Rate	150K – 32.5Mbps		Max TX Power	20dBm
Range	>1km (0.62 mile)		Power Supply	3.3V
Mount Type	Surface Mount		Power Consumption	TBD
OS Support	Amazon Free RTOS		Operation Temp.	-40°C - 85°C

### ■ Block Diagram

