

Wi-Fi HaLow Comparison Table



Morse Micro

		MM6108	MM8108
Package	Type	QFN	BGA
	Size	6 x 6 mm	5 x 5 mm
Modes of operation	AP	✓	✓
	STA	✓	✓
Software models	Softmac	✓	✓
	Fullmac	✗	✓
Host Interfaces	SPI	✓	✓
	SDIO	✓	✓
	USB	✗	✓
Frontend	ePA	✓	✓
	iPA	✗	✓
	eLNA	✓	✓
	iLNA	✗	✓
Certification	Wi-Fi HaLow	✓	✓
	FCC	✓	✓
	Giteki	✓	✓
	CE	✓	✓
	Single BOM for FCC/Giteki/CE	✗	✓
Bandwidth	1MHz	✓	✓
	2MHz	✓	✓
	4MHz	✓	✓
	8MHz	✓	✓
Frequency range	850 - 950MHz	✓	✓
Modulation	BPSK	✓	✓
	QPSK	✓	✓
	16-QAM	✓	✓
	64-QAM	✓	✓
	256-QAM	✗	✓
Power consumption	Sleep - Hibernate	1uA	1uA
	Rx Listen	32.5mA	19mA
	Rx Active	34.5mA	20mA
	Tx Active 100%	159mA @17dBm 212mA @21dBm	95mA @ 17dBm 150mA @ 21dBm 325mA @ 26dBm
	DTIM3	305uA	215uA
	DTIM10	123uA	77uA
	DTIM40	70uA	35uA
Throughput	PHY	32.5Mbps (8MHz MCS7)	43.3Mbps (8MHz MCS9)
	UDP	22Mbps	30Mbps
	TCP	18Mbps	23Mbps

MM6108-EKH05



The MM6108-EKH05 includes:

1. Wi-Fi HaLow Module
2. STM32U585 Host Microcontroller
3. ST BLE Module – BLUENRG-M2SP
4. STLINK-V3MODS
5. Camera Module
6. Versatile Power Measurement
7. mikroBus & QWIC Connectors
8. Full Access to STM32 peripherals (I2C, SPI, etc)

The MM6108-EKH05 evaluation kit is a fully integrated Wi-Fi HaLow development platform, designed for a wide range of IoT applications

MM8108-RD09



Faster, smaller, lower power and longer range than our first-gen MM6108

MM8108 supports:

- 8MHz BW MCS9 (256 QAM)
- PHY throughput of 43.3Mbps
- Integrated PA (21dBm) & LNA
- USB, SDIO, SPI host interfaces
- Ultra-low-power DTIM & TWT modes
- Full stack

The MM8108-RD09 is the most advanced Wi-Fi HaLow Evaluation kit in the smallest and easiest to use package