

## M-HL10



### Long Range, Low Power LoRa Wireless Module

M-HL10 is RF front-end long range, low power LoRa wireless module based in Semtech SX1268/62, MCU is based on Cortex M0+ ultra-low power consumption microcontroller, with ultra-small package process and professional RF instrument debugging, M-HL10 is widely adopted in logistics and storage, intelligent buildings, smart cities, asset tracking, urban street lamps, medical and health care products, agriculture, parking lot sensors and other fields.

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### Main Features:

- Max TX Power 22dBm, Sleep current down to 2uA
- Remote Wake-up
- Automatic Frequency Hopping
- Transparent Communication
- AES128 Encryption
- LoRa AT Command
- SDK Development Kits
- LoRa/LoRaWAN Class A Compatible



Industrial Design



Low Power



Spread Spectrum



Small Size



Long Range



Anti-interference

Model No.	M-HL10-LFI	M-HL10-LFP	M-HL10-HFI	M-HL10-HFP
Antenna Interface	IPEX	Pad	IPEX	Pad
RF Chip	SX1268		SX1262	
RF Frequency	410~525MHz		862~1020MHz	
Modulation	LoRa/FSK Optional, LoRa Default			
Bandwidth	250K/500K /125K(Default) Optional			
TX Power	5~22dBm Adjustable			
RX Sensitivity	-141dBm@470MHz, 125K Bandwidth, SF=12			
Communication Distance	3Km@Open Environment, 125K Bandwidth SF=12			
<b>Hardware Parameter</b>				
Voltage	2.2V~3.7V			
TX Current	120mA@Max TX Power 22dBm			
RX Current	10mA@ Continuous RX Mode			
Monitor Current	8mA@CAD Checking Mode			
Sleeping Current	2uA, Serial Port Wake-up			
Interfave	ADC/I2C/UART/GPIO			
Size	13*26*3mm			
Package	LCC			
<b>Serial Port Parameter</b>				
TTL	3.3V-TTL			
Serial Port	Baud Rate: 1200~115200bps, 9600bps Default Data Bits: 8 bit, Stop Bit: 1 bit Parity Bit: None/Even/Odd, None Default			
Data Buffering	5 * 228 bits, Packet Interval: 5 mins			
<b>Software Parameter</b>				
Encryption	AES128			
Network	Star, P2P, Broadcasting, Multicast			
Protocol	Transparent/Private Protocol/LoRaWAN Class A			
Wireless Wake-up	Yes			
Config	AT Command			
2nd Development	SDK Development Kits			