

HIMO-01(M)

The HIMO-01(M) is based on the LoRa (SX1278) spread spectrum chip. The HIMO-01 is a single SX1278 module and HIMO-01M is SX1278 + MCU. The two models are PIN-to-PIN compatible. The HIMO series allow remote, low-power wireless communication between non-wireless devices.



Feature

- Ultra low power processor : STM8L051 ⁽¹⁾
- Communication Interface : SPI、UART ⁽²⁾
- Interface level : 3.3V TTL
- Frequency : 410MHz-470MHz
- Center frequency : 433MHz
- Maximum power : 19.26dBm ⁽³⁾
- Sensitivity : -148dBm
- transmission distance:10KM ⁽⁴⁾
- supports FSK、GFSK、LoRa、OOK Modulation mode
- Small size with shield
- Dimension: 14mm x 17 mm x 2,5 mm
- lead-free, anti-static bag packaging
- Operating temperature : -40 ~ +85 °C
- Operating humidity : 10% ~ 90%, without condensation
- Storage temperature : -40 ~ +125°C

Power Supply

- Operating voltage : 2.8V - 3.6V (3.3V recommended)
- Max. continuous emission current : 93mA
- Continuous interface current : 14mA
- Typical sleep current : 0.75mA

Application

- Automatic meter reading
- Home and building automation
- Wireless alarm and security system
- Industrial monitoring
- Remote sensor communication

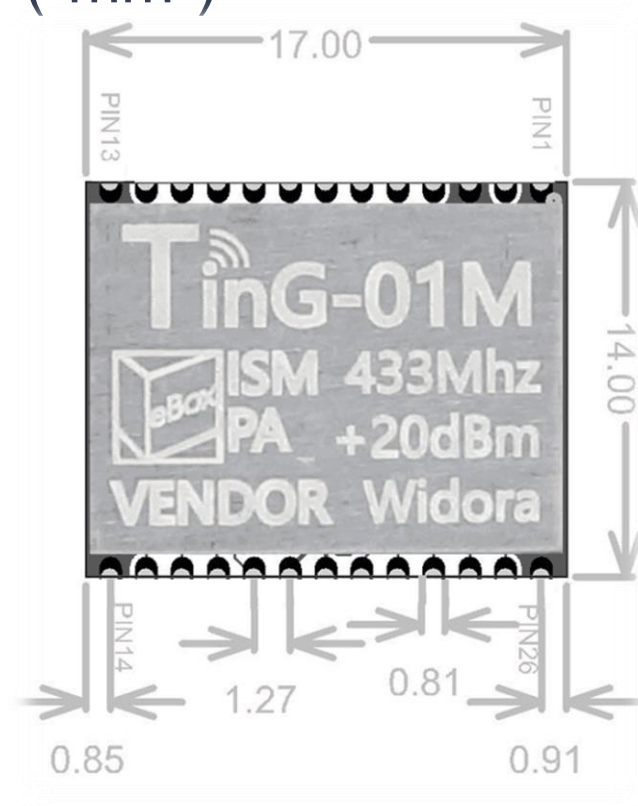
Additional features of 01M

- independently controlled GPIO : 2
- readable analog ADC : 1
- settable PWM : 1
- Communication UART : 115200 , 8N1
- AT command control interface

Remarks

- 1 : only HIMO-01M has MCU
- 2 : only HIMO-01M provides UART interface
- 3 : HIMO-01 measured value
- 4 : Under excellent conditions 10KM

Dimension (mm)



Pin description

Ting-01/01M			
1	GND	GND	26
2	ANT	DIO5	25
3	GND	DIO4	24
4	VCC	DIO3	23
5	TR	DIO2	22
6	TX	DIO1	21
7	RX	NRST	20
8	SWIM	DIO0	19
9	CPURST	MISO	18
10	PD0	MOSI	17
11	PB0	SCK	16
12	PC4	NSS	15
13	GND	GND	14

Nr.		
1	GND	Ground
2	ANT	RF output, input
3	GND	Ground
4	VCC	Power
5	TR	1278 send & receive switchover (float)
6	TX	UART data output
7	RX	UART data input
8	SWIM	Mass production brush firmware (float)
9	CPURST	MCU Reset
10	PD0	GPIO D0
11	PB0	GPIO B0
12	PC4	GPIO C4
13	GND	Ground
14	GND	Ground
15	NSS	1278 SPI Chip selection
16	SCK	1278 SPI clock
17	MOSI	1278 SPI data input
18	MISO	1278 SPI data output
19	DIO0	1278 IO0
20	NRST	1278 Reset
21	DIO1	1278 IO1
22	DIO2	1278 IO2
23	DIO3	1278 IO3
24	DIO4	1278 IO4
25	DIO5	1278 IO5
26	GND	Ground