

M0M100PX

ANTENNA SPECIFICATION



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- (10) Support FTP server connection;
- (11) Support the connection of MQTT servers and have a rich set of AT instructions.
- (12) PEAK ANTENNA GAIN: 1.5DB

1.1.2 Packaging of modules

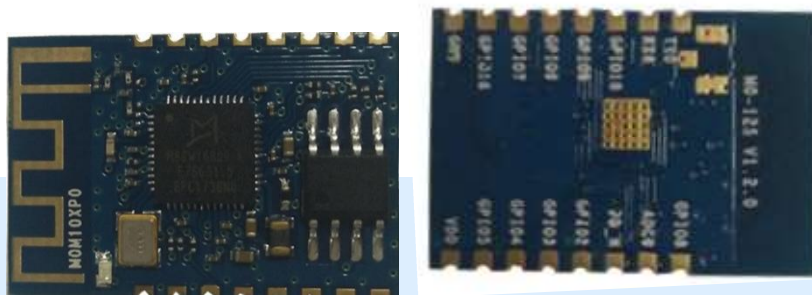


Figure 1-1: Module physical display

1.1.3 Basic parameters of the module

Module	Model	M0M100PX
Wireless parameters	Wireless standard	Wireless standard IEEE 802.11b/g/n
	Frequency range	Frequency range 2.412GHz-2.484GHz
	Data transfer rate (Mbps)	802.11b: 1, 2, 5.5, 11
		802.11g: 6, 9, 12, 18, 24, 36, 48, 54
		802.11n HT20: MCS0~7
		802.11n HT40: MCS0~7
	Modulation method	BPSK/ QPSK/ 16-QAM/ 64-QAM
	Frequency expansion technology	IEEE 802.11b: DSSS (Direct Sequence Spread Spectrum) IEEE 802.11g/n: OFDM (Orthogonal Frequency Division Multiplexing)
	Working mode	Soft-AP, Station & AP/Station modes
	Working channel	1-13
	Security mechanism	64/128 WEP, WPA, WPA2, WAPI

Hardware parameters	Hardware interface	UART
	Operating voltage	3.0V--3.6V
	Maximum operating current	408mA
	GPIODriving ability	Max: 14Master of Arts
	Output impedance	50Ω±10%
	Operating temperature	-20~70° C
	Storage temperature	-40~125° C
	Measurement	16Mm*24mm*3mm
Serial port transmission	Transmission rate	9600~460800bps
	TCP Client	5 pieces
Software parameters	Wireless network type	STA, AP, AP+STA
	Security mechanism	WEP/WPA-PSK/WPA2_PSK
	Encryption type	WEP64/WEP 128/TKIP/AES
	Firmware upgrade	OTA remote upgrade
	Network protocol	AT+ instruction set, WEB web page,Smartconfig/Arkiss intelligent distribution network
	MQTT protocol	Enrich AT+ instruction set and support Alibaba Cloud Internet of Things suite
	FTP	Support FTP server connection

1.2 Hardware introduction

M0M100PX Rich hardware interfaces can supportUART,PWM,GPIO Etc., suitable for various Internet of Things applications. As shown in Figure 1-2, the module pin arrangement diagram.

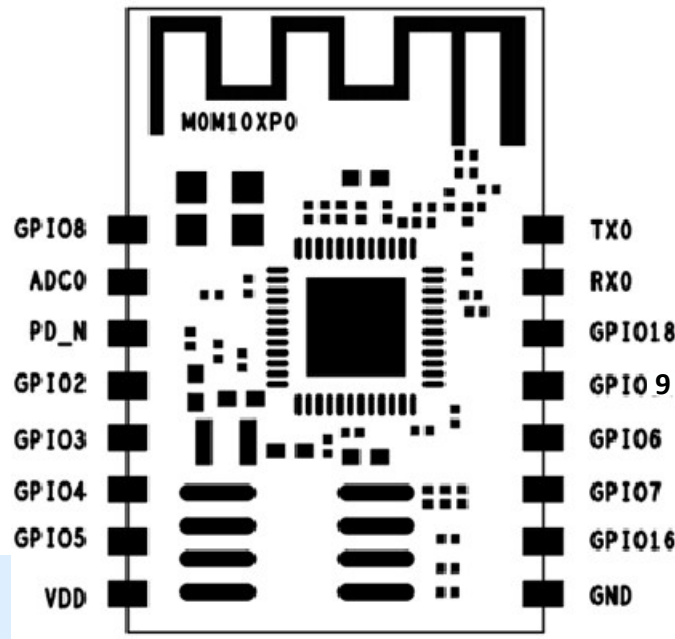


FIGURE 1-2: MODULE PIN ARRANGEMENT (BOTTOM VIEW)

The module pins are defined in detail as follows:

Personal identification number	Function	Description
1	GPIO8	General Purpose Input/Output: GPIO8/PWM2;
2	ADC0	Analog input;
3	PD_N	Module enabling function: High level: the module is working properly Low level: grounded, module closed
4	GPIO2	General Purpose Input/Output: GPIO2;
5	GPIO3	General Purpose Input/Output: GPIO3;
6	GPIO4	General Purpose Input/Output: GPIO4;
7	GPIO5	General Purpose Input/Output: GPIO5;

8	VDD	Power supply, 3.3V;
9	GND	Grounding;
Ten	GPIO16	General Purpose Input/Output: GPIO16;
11	GPIO7	General Purpose Output: GPIO7/PWM1;
12	GPIO6	General Purpose Output: GPIO6/PWM0;
13	GPIO9	General Purpose Input/Output: GPIO9/PWM3;
14	GPIO18	General Purpose Input/Output: GPIO18;
15	RXD	UART_RXD, serial port receiving;
16	TXD	UART_TXD, serial port sending;

1.3 Measurement

M0M100PX The module has an ultra-small size (16Mm*24mm*3mm), as shown in Figure 1-3, the module size diagram is shown:

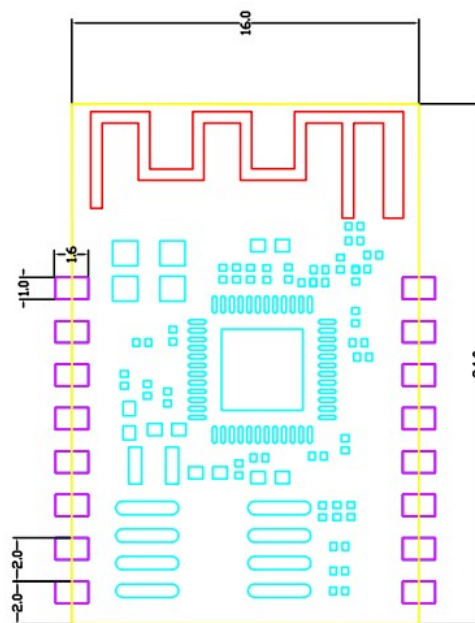


Figure 1-3: Module size diagram(Unit: mm)

Note: 1) Please wiring strictly according to the size shown above.

- **2)This antenna can only be matched with the module provided by our company to**
- **output maximum efficiency**



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