

# 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

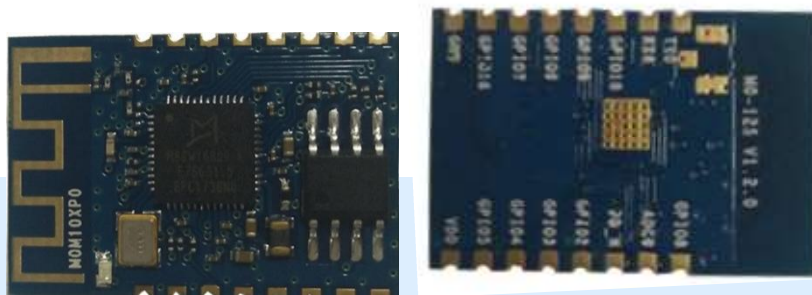


Figure 1-1: Module physical display

### 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.

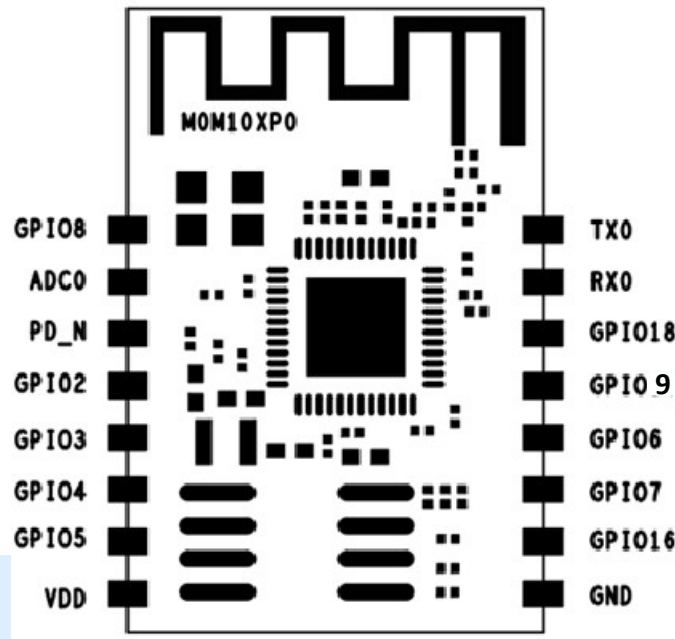


FIGURE 1-2: MODULE PIN ARRANGEMENT (BOTTOM VIEW)

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:

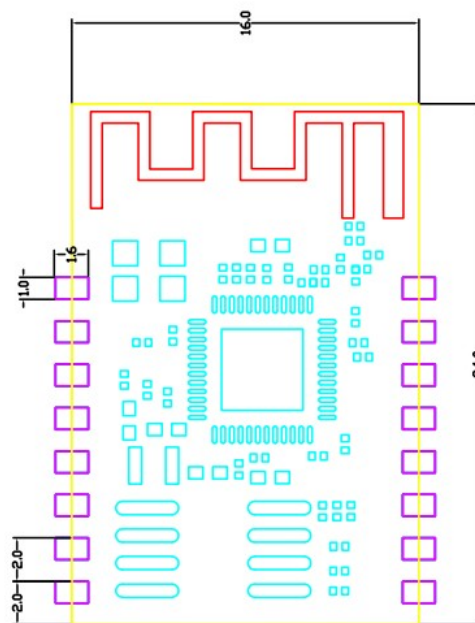


Figure 1-3: Module size diagram(Unit: mm)

**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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