

JDY-40 无线串口模块

JDY-40 wireless serial port module



功能简介

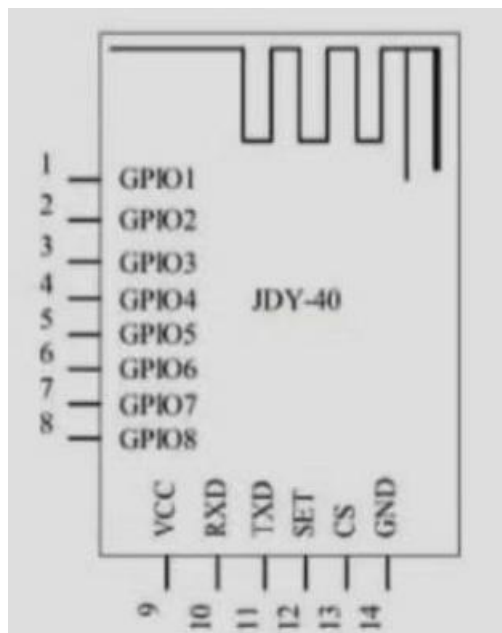
JDY-40 采用 2.4G 技术开发，视距 120 米，采用串口通信接口，使用简单快捷，只需要了解串口知识就可以对 JDY-40 进行产品应用

Function introduction

JDY-40 is developed using 2.4G technology, with a line of sight of 120 meters. It adopts a serial communication interface, which is simple and fast to use. You only need to understand the serial port knowledge to apply JDY-40.

JDY-40 引脚定义

JDY-40 pin definition



引脚功能描述

引脚	管脚名称	功能
1	GPIO1	输入输出 IO, 可通过 AT+CLSS 配置
2	GPIO2	输入输出 IO, 可通过 AT+CLSS 配置
3	GPIO3	输入输出 IO, 可通过 AT+CLSS 配置
4	GPIO4	输入输出 IO, 可通过 AT+CLSS 配置
5	GPIO5	输入输出 IO, 可通过 AT+CLSS 配置
6	GPIO6	输入输出 IO, 可通过 AT+CLSS 配置
7	GPIO7	输入输出 IO, 可通过 AT+CLSS 配置
8	GPIO8	输入输出 IO, 可通过 AT+CLSS 配置
9	VCC	电源 (2.2V - 3.6V)
10	RXD	串口输入引脚
11	TXD	串口输出引脚
12	SET	AT 指令切换引脚 (低电平 AT 指令, 高电平透传)
13	CS	透传或按键发射模式: CS 片选引脚 (低电平唤醒, 高电平睡眠) IO 接收模式: 需要将 CS 引脚悬空或拉高电平
14	GND	电源地

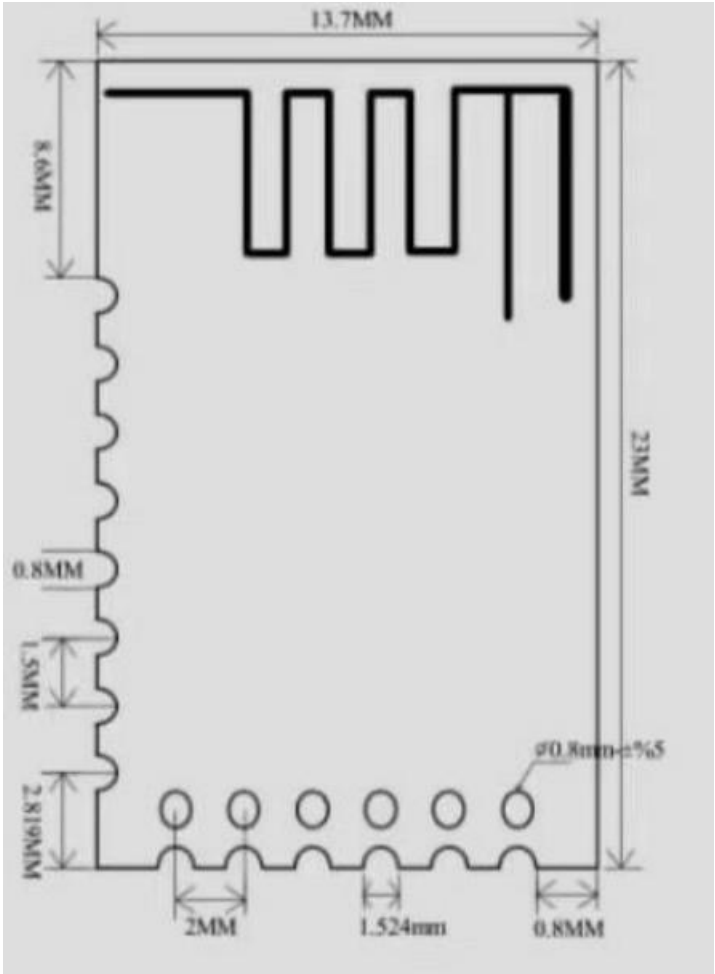
Pin function description

Pin	Name	Functions
1	GPI01	I/O 10, configurable via AT+CLSS
2	GPI02	I/O 10, configurable via AT+CLSS
3	GPI03	I/O 10, configurable via AT+CLSS
4	GPI04	I/O 10, configurable via AT+CLSS
5	GPI05	I/O 10, configurable via AT+CLSS
6	GPI06	I/O 10, configurable via AT+CLSS
7	GPI07	I/O 10, configurable via AT+CLSS
8	GPI08	I/O 10, configurable via AT+CLSS
9	VCC	power supply(2.2V-3.6V)
10	RXD	Serial port input pin
11	TXD	Serial port output pin
12	SET	AT command switch pin (low level AT command, high level through-pass)
13	CS	Transparent or key launch mode :CS chip pin selection (low level wake up, high level sleep)I0 Receive mode: The CS pin needs to be suspended or pulled high
14	GND	power ground

技术参数 technical parameters

型号 model	JDY-40
工作频段 Operating frequency band	2.4G
发射功率 Transmitting power	Max 12db
工作温度 work temperature	-40℃-80℃
接收灵敏度 Receiving sensitivity	-97db
传输距离 Transmission distance	120 米
工作电压 Operating voltage	2.2V-3. 6V
TX 电流 TX current	40mA
RX 电流 RX current	24mA
睡眠电流 Sleep current	5uA
天线增益 ANT gain	1.68dBi
通信接口 Communication interface	标准 TTL 串口 Standard TTL serial port

Size image:



默认配置

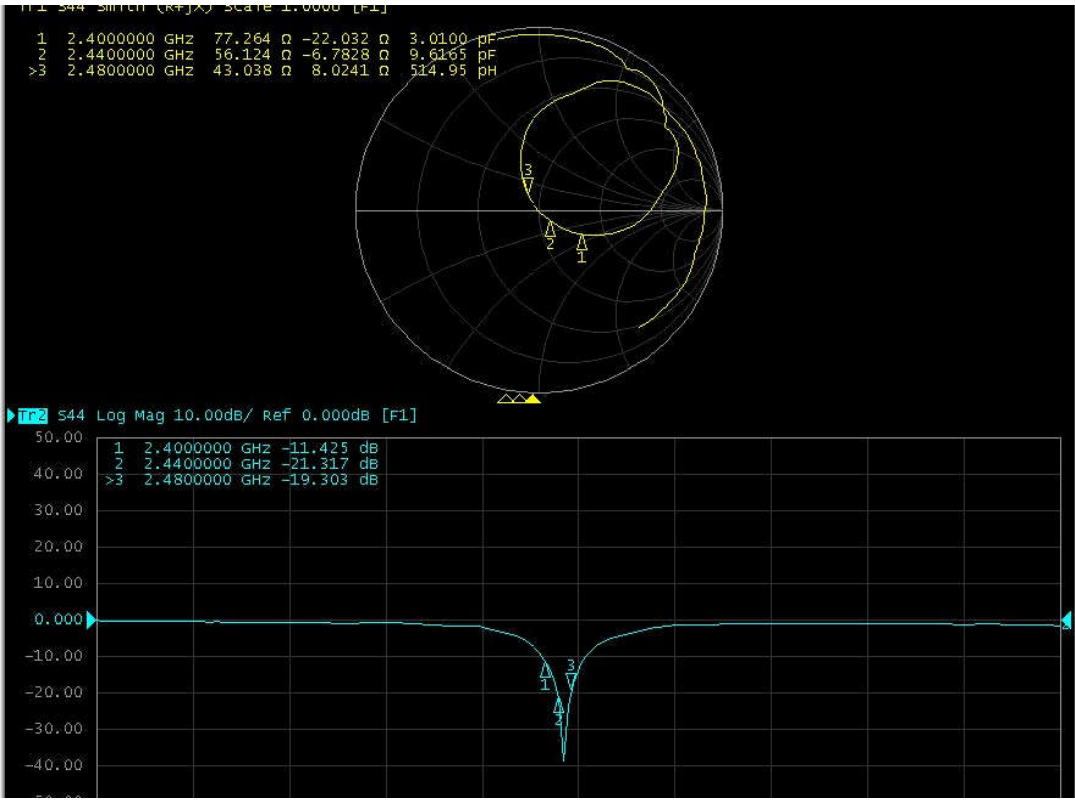
序列 NO.	功能 function	参数 parameter	指令 instructions
1	波特率 Baud rate	9600	AT+BAUD
2	无线 ID Wireless ID	8899	AT*RFID8899
3	设备 ID Device ID	1122	AT-DVID1122
4	频道 channel	001	AT+RFC001
5	发射功率 Transmitting power	12db	AT-POWE9
6	设备类型 Device type	A0	AT+CLSSA0

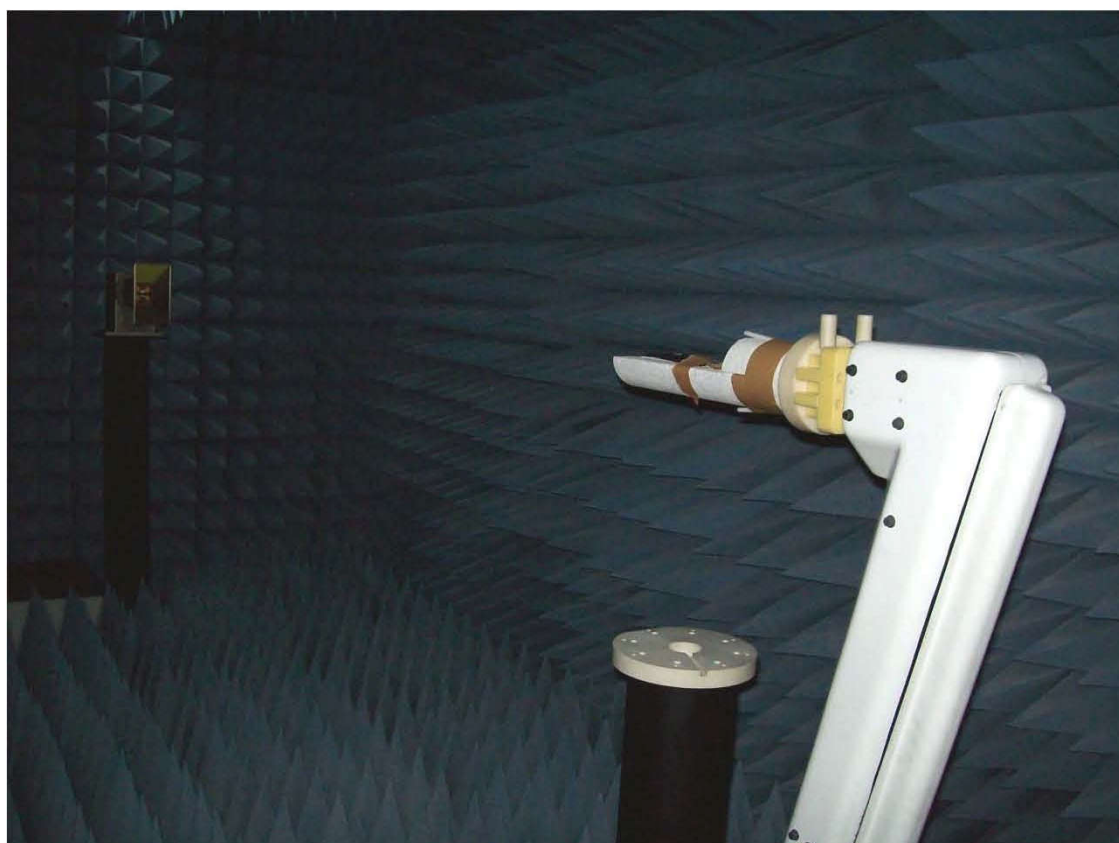
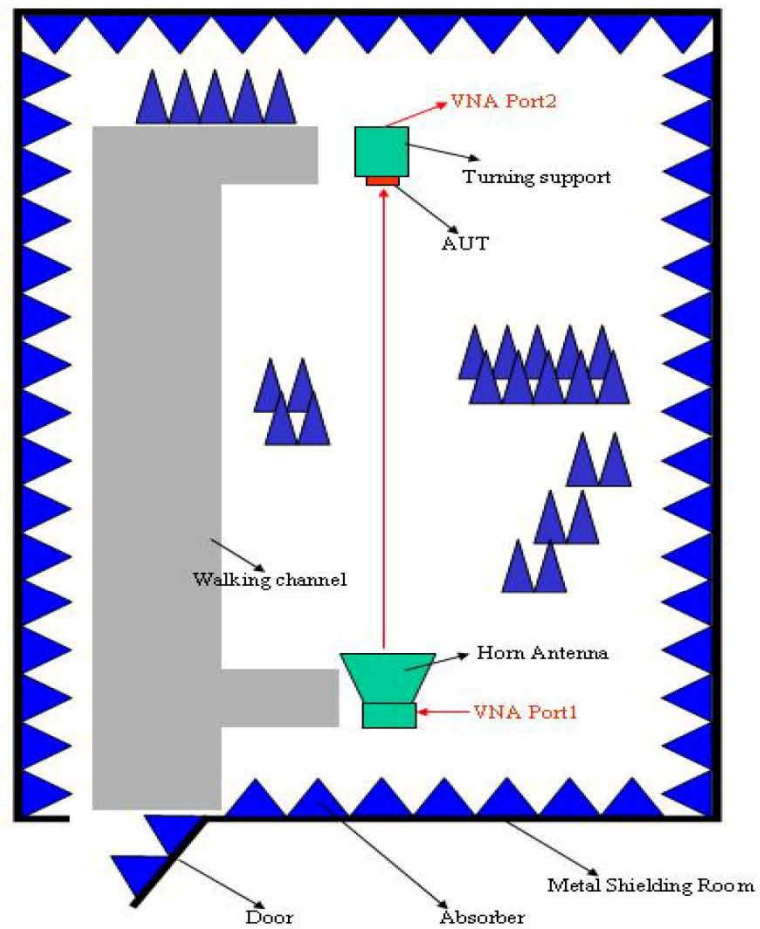
AT 指令集

序列 NO.	指令 instructions	作用 effect	参数 parameter
1	AT+BAUD	波特率 Baud rate	9600
2	AT*RFID8899	无线 ID Wireless ID	8899
3	AT-DVID1122	设备 ID Device ID	1122
4	AT+RFCO01	频道 channel （128pcs Channel）	001
5	AT-POWE9	发送功率 sending power	+12db
6	AT+CLSSA0	类型 Types	A0

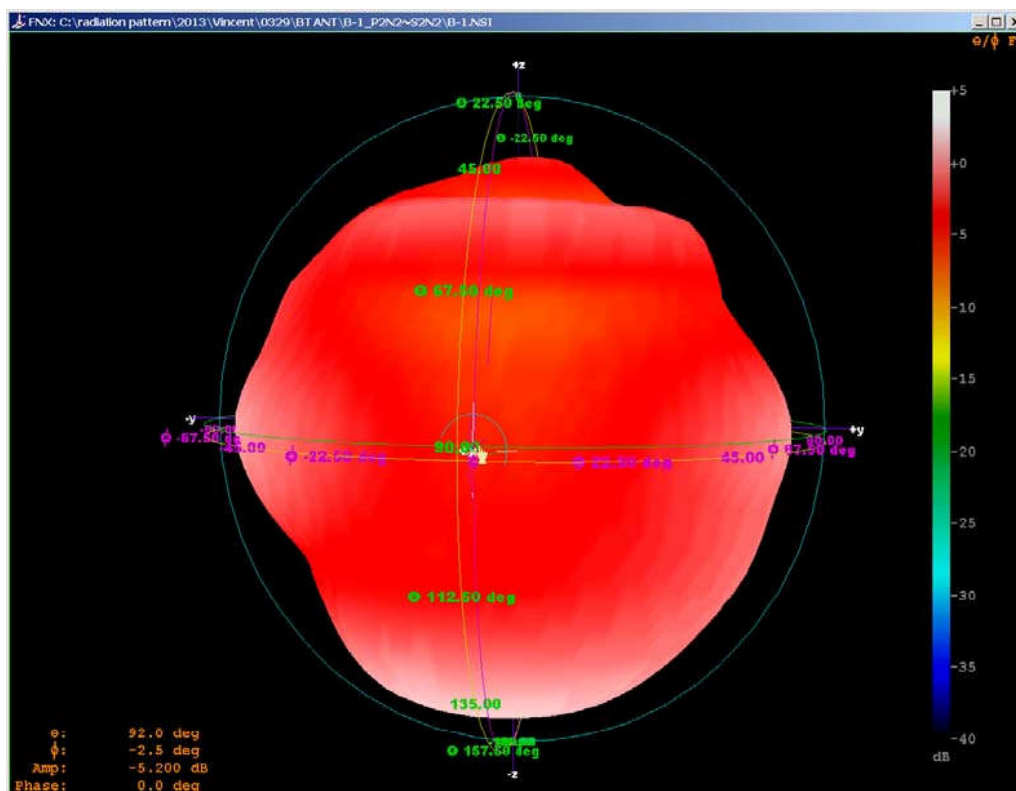
通信:只需要将通信模块的 RFC、DVID、RFID 配置相同，模块与模块之间就可以通信，模块出厂时，模块配置参数都统一相同，用户可以根据自己需求进行配置

Communication: Only if the RFC, DVID, and RFID configurations of the communication modules are the same, the modules can communicate with each other. When the module leaves the factory, the module configuration parameters are the same, and users can configure them according to their own needs.

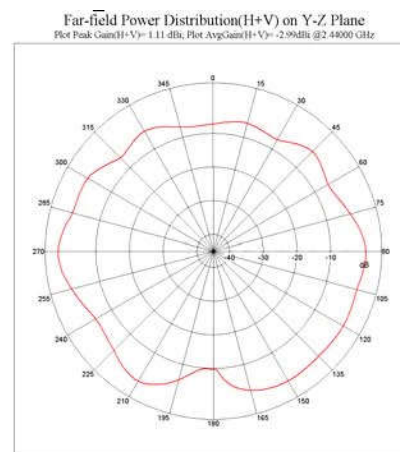
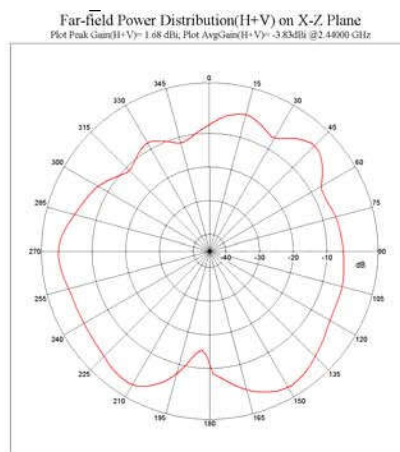
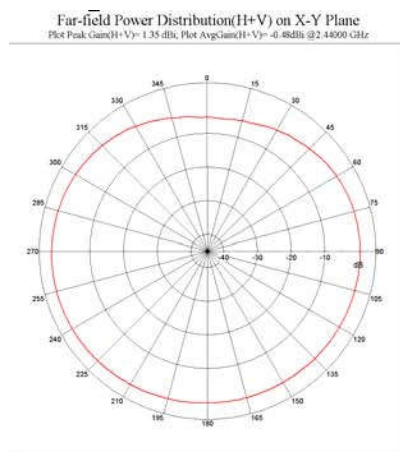




The Environment of Antenna Radiation Pattern



3D radiation pattern diagram



XY-plane XZ-plane YZ-plane