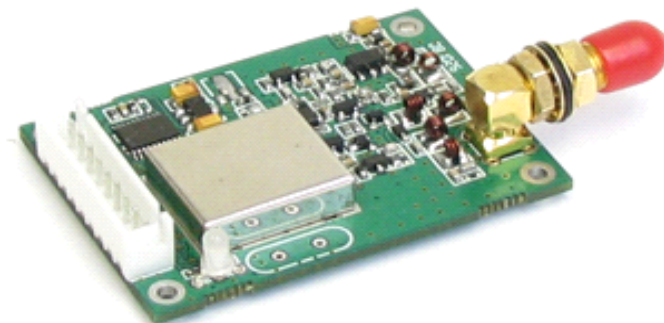


## KYL-200L Wireless Transceiver Module



KYL-200L low power wireless transceiver module is a small size, low power consumption radio module. With high performance chip CC1020, it has good stability and reliability. This module can be connected with micro-controller, PC, RS485 equipments and other devices with UART port directly. It is widely used in remote control, industry automation, wireless telemetry and so on.

### I. Technical specification

<b>PERFORMANCE</b>	
Power Output:	500mW(Default), (1W optional)
RF Line-of-sight Range:	3Km@1200bps; 2Km@9600bps
RF Effective Rate:	1200/2400/4800/9600/19200bps
Space Channel:	1MHz(Default), (12.5/25KHz/others Customization )
Receiver Sensitivity:	-123dBm@1200bps (1% BER)
<b>NETWORKING</b>	
Networking Topology:	Point-to-point, point-to-multipoint
<b>COMPATIBILITY</b>	
KYL-200 series and KYL-300 seires	
<b>POWER</b>	
Power Supply:	5V DC (Default); (7.5~9V optional)
Transmit Current:	<400mA
Receive Current:	<28mA

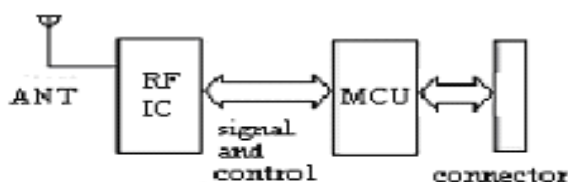
Sleep current:	<20uA
<b>GENERAL</b>	
Communication Mode:	Half-duplex
Frequency Band:	400-470MHz
Channel:	8(default),16/32/64(optional)
Interface:	TTL, RS232, RS485 or USB
<b>PHYSICAL PROPERTIES</b>	
Size:	53mm×38mm×10mm (excluding antenna base and data pin)
Weight:	22g
Antenna Base:	50Ω, SMA
Operating Temperature:	Industrial:-40℃~+80℃(TCXO)
Frequency Stability:	±2.5ppm Industrial

## II. Application Field

- \* Automatic Meter Reading (AMR);
- \* Wireless alarm and security systems;
- \* Building automation, security systems, wireless monitor;
- \* Wireless data transmission, automatic data collection system;
- \* Wireless POS, PDA wireless smart terminal;
- \* RF transmitter, Wireless electronic display screen and Queuing machine;
- \* Wireless telemetry; remote control and access control system;
- \* Wireless modem automobile inspection and four-wheel orientation;
- \* Wireless sensor, Industrial wireless remote control;
- \* Data communication in the aspects of railway, oil field, dock and army.
- \* LED display in thruway and public place;
- \* Point to multi-point wireless network.

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## III. How to Use It

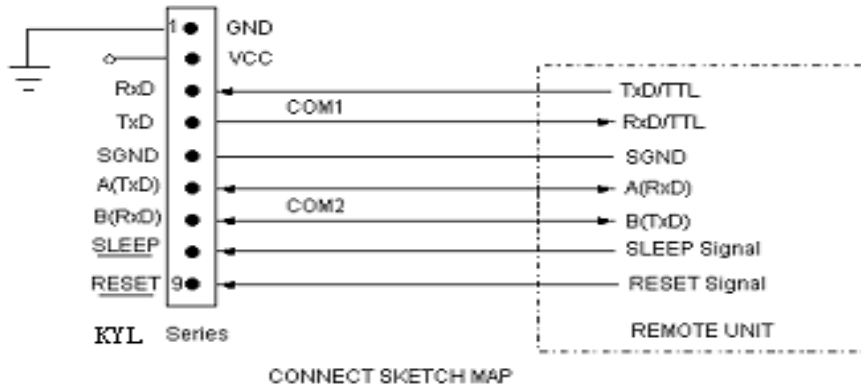


KYL-200L Principle map

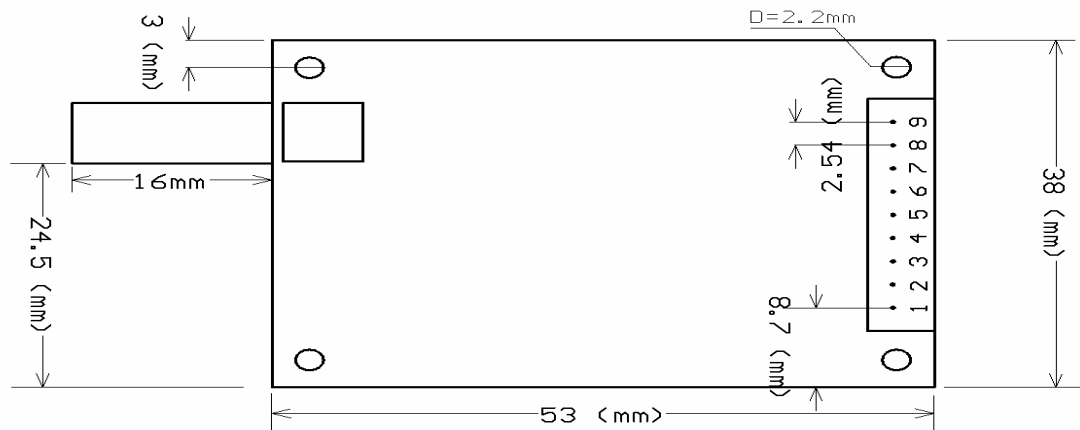
1. Default 5V Power supply
2. PIN Definition (9pin)

Pin No.	Signal Name	Function	Level	Connection with terminal	Remarks
1	GND	Grounding of power supply		Ground	
2	Vcc	Power supply DC	5V		
3	RxD/TTL	Data receiving	TTL	TxD	
4	TxD/TTL	Data transmitting	TTL	RxD	
5	SGND	Signal			
6	A (TXD)	A of RS-485 (TxD of RS-232)		A(RxD)	
7	B (RXD)	B of RS-485 (RxD of RS-232)		B(TxD)	
8	SLEEP	Sleep control	TTL	Sleep signal	Low level valid
9	TEST	Factory testing	TTL		

**3. The connection schematic between computer and the RF module**



**4. Installation dimension:**



### 5. The Function-indicator light

- a. The LED indicator turns red for 0.5S when power on.
- b. The LED indicator turns green continually while receiving data from air.
- c. The LED indicator keeps dark when the module is in sleep mode.

### 6. Parameter setting by our software

You can use our software KYLCOM.exe to read or set the parameter on computer. When you connect RF module to PC by the testing cable, please remember to connect the DB9 as well as USB port to computer.

Channel No.	Frequency	Channel No.	Frequency
1	429.0325MHZ	5	433.0325MHZ
2	430.0325MHZ	6	434.0325MHZ
3	431.0325MHZ	7	435.0325MHZ
4	432.0325MHZ	8	436.0325MHZ

**Note: the frequency points corresponding to each channel can be adjusted based on the user's needs.**

### 7. About antenna

We usually allocate KYL-200L RF module with the following antenna. If you have any special needs about the antenna, please specify. You are welcomed to visit our web for more choice about the antenna:

<http://www.rf-data.com/product2.asp?BigClassName=Antennas>. Moreover, we also provide OEM&ODM service.



### Shenzhen KYL Communication Equipment Co., Ltd

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