KYL-210 Wireless Data Module



KYL-210 is a kind of micro power wireless transceiver data module. With small size, low power consumption as well as good stability and reliability, it is widely used in remote control, industry automation, wireless telemetry and so on. This module can be connected with micro-controller, PC, RS485 equipments and other devices with UART port directly.

I. Technical specification

PERFORMANCE						
Power Output:	50mW					
RF Line-of-sight Range:	400m@1200bps; 200m@9600bps					
RF Effective Rate:	1200/2400/4800/9600/19200/100kbps					
Space Channel:	1MHz(Default), (12.5/25KHz/other customization					
Bandwidth:	<25KHz					
Receiver Sensitivity:	-118dBm@1200bps (1% BER)					
NETWORKING						
Networking Topology:	Point-to-point, point-to-multipoint					
COMPATIBILITY						
KYL-220						
POWER						
Supply Voltage:	3.1~5.5V DC					
Transmit Current:	<40mA					
Receive Current:	<20mA					
Sleep current:	<20uA					

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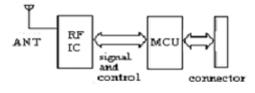
GENERAL	
Communication Mode:	Half-duplex
Frequency Band:	433MHz default (400MHz-470MHz available)
Channel:	8(default),16/32/64(optional)
Interface:	TTL, RS232, RS485
PHYSICAL PROPERTIES	
Size:	40mm×24mm×6mm
	(excluding antenna base and data pin)
Weight:	20g
Antenna Base:	50Ω, SMA
Operating Temperature:	commercial:-30℃~+60℃(TCXO)
Frequency Stability:	±2.5ppm

II. Application Field

- * AMR (Automatic Meter Reading)
- * Wireless alarm and security systems
- * Building automation, wireless monitoring, Access Control System;
- * Wireless data transmission, automatic data collection system;
- * Wireless POS, PDA wireless smart terminal;
- * Wireless PTZ remote control, LED display;
- * Wireless remote control, wireless process control;
- * Industry automation, wireless telemetry and so on.

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III. How to Use It

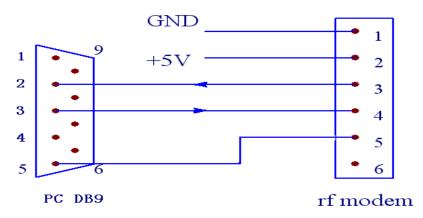


KYL-210 Principle map

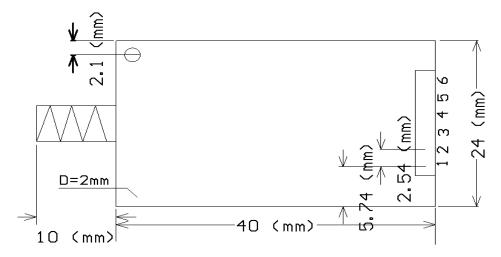
- 1. Default 5V Power supply
- 2. PIN Definition (6pin)

Pin No.	Pin Name	Description	Level	Connection with terminal	Remarks		
1	GND	Grounding of power supply					
2	VCC	Power supply DC	+3.3-5.5V				
3	RS232 TXD	Data transmitting	RS232	RXD	Red LED flashes		
	TTL TXD	Data receiving	TTL		when transmitting		
	RS485 A	RS485 A	-				
4	RS232 RXD	Data receiving	RS232	TXD	Green LED flashes		
	TTL RXD	Data receiving	TTL		when receiving		
	RS485 B	RS485 B	-				
5	DGND	Digital grounding			NC		
6	NC	Factory testing			NC		

3. The connection schematic between computer and the RF module



4. Installation dimension:



5. The Function-indicator light

- a. The LED indicator blinks red for 0.5S when power on.
- b. The LED indicator blinks red continually while transmitting data.
- c. The LED indicator blinks green continually while receiving data.
- d. 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.

Corresponding frequency points of 1-8 channel at 433MHz:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	425.250MHz	2	426.250MHz	3	427.250MHz	4	431.250MHz
5	432.250MHz	6	434.250MHz	7	435.250MHz	8	436.250MHz

7. About antenna

We usually allocate KYL-210 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.



Standard package: KYL-210 module+ A1 antenna+L0 6-PIN cable

Shenzhen KYL Communication Equipment Co., Ltd

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