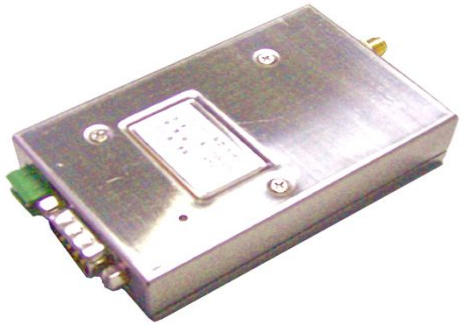
RS-232/RS-485/TTL Mini Power Wireless Module

ATC-875

Product Features

- Ultra low power transmission
- ISM frequency band, not requiring on application of frequency point
- High ani-interference and low BER (Bit error Rate)
- Long transmission distance
- Transparent data transmission
- Multi-channel and speed
- Low power consumption
- High speed wireless communication and large data buffer
- Intelligent data control and the user doesn't need to prepare excessive programs
- High reliability, small and light
- Watchdog monitor
- Antenna choose



ANT-1 ANT-2 ANT-3 ANT-4

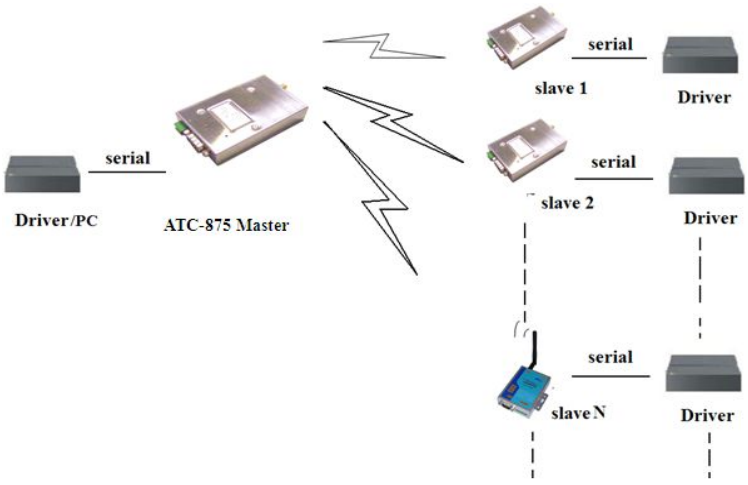
Application

ATC-875 the Mini Power Wireless Module is used as the wireless data transmission in short distance. With the small size, weight and power consumption and good stability and reliability, it has the function of bi-directional data sign transmission, test and control. It is used for Wireless meter reading, such as water meter, electric meter and gas meter, parking meter, intellective card, electronic weighing apparatus, meter for checking on work attendance, queue wireless meter, building control, shipping company control, alarm system, intelligent equipment, Automatic data collecting system; Industrial remote control and remote test building automation, safety and security, powerhouse equipment wireless monitor, entrance control system, etc. It provides the USB power interface to be convenient for the mini computer and PC users if necessary.

Product Description

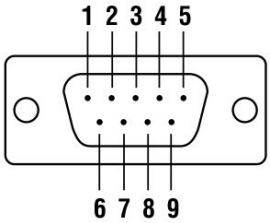
ATC-875 wireless digital transmission module offers standard RS-232, RS-485 and UART/TTL level interfaces for direct connection with computers, use's RS-485 equipments, SCM or other UART parts.

ATC-875 has adopted half duplex communication channel most suitable for point to multi-point communication mode. The primary station takes full control of communication harmony, and adopts data frames with address codes for data or command transmitting. The secondary station shall fully receive them and select response by comparing address codes; all the work shall be fulfilled by upper layer protocols, which shall ensure that only one wireless module in the communication network is in the transmitting state in any instant to avoid mutual interference. Therefore, the transmission channel built by ATC-875 is transparent to the user. ATC-875 can also be applied to point to point communication, making it easier and smoothly upgrade wire (RS232/485/TTL) transmission mode in original system.



Pin Assignment

RS-232/485/TTL DB-9(Male)



PIN	RS-232
1/4/6/9	-
2	RXD(in)
3	TXD(out)
5	GND
7	CTS(out)
8	RTS(in)

Specifications

Technical Characteristics		
Modulation mode	GFSK	
Working frequency	433MHz	
Transmission power	ATC-875	2W/1W
Receiving sensitivity	ATC-875	-123dBm
Transmitting current	ATC-875	<1.5A
Receiving current	ATC-875	<50mA
Sleeping current	ATC-875	<1mA
Channel speed rate	ATC-875	1200/2400/4800/9600/19200/38400bps
Interface speed rate	ATC-875	1200/2400/4800/9600/19200/38400bps
Interface	RS-232/ RS-485/TTL	DB9
Change time for receiving and sending	<10ms	
Interface data format	8E1/8N1/8O1	
Power Supply	DC5V	
Physical Characteristics		
Installation	DIN-Rail Mounting	
Housing	Iron (1mm)	
Weight	0.6kg	
Dimensions	92 × 62 × 23 mm	
Environmental Limits		
Operating Temperature	-20 ~ 70°C (-4 ~ 158°F)	
Storage Temperature	-40 ~ 85°C (-40 ~ 176°F)	
Ambient Relative Humidity	5% to 95%(non-condensing)	
Standards and Certifications		
RoHS, CE, FCC		

Order Information

Model No	Description	Serial Type	Frequency	Distance
ATC-863	Mini Power Wireless Module	RS-232/485/TTL	433/868/915MHz	300meter
ATC-871	Mini Power Wireless Module	RS-232/485/TTL	433/868/915MHz	500meter
ATC-873	Mini Power Wireless Module	RS-232/485/TTL	433/868/915MHz	1000meter
ATC-875	Mini Power Wireless Module	RS-232/485/TTL	433/868/915MHz	2000meter

Contact us

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