

Product Features

- Ultra low power transmission
- ISM frequency band, not requiring on application of frequency point
- High anti-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



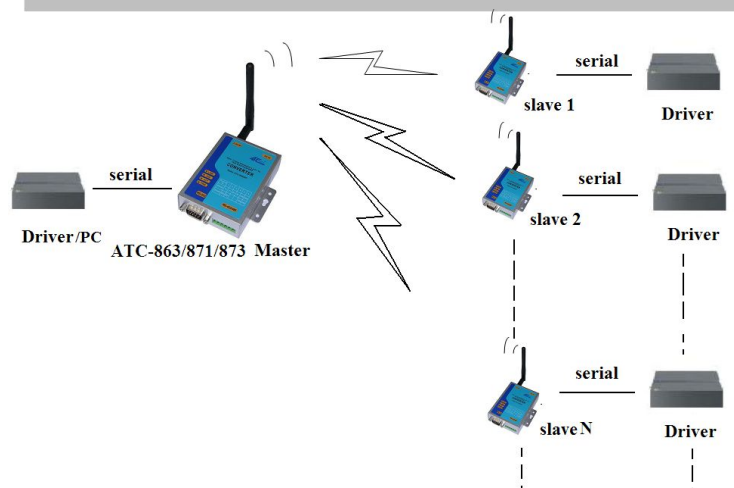
Product Description

ATC-863/871/873 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-863/871/873 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-863/871/873 is transparent to the user. ATC-863/871/873 can also be applied to point to point communication, making it easier and smoothly upgrade wire (RS232/485/TTL) transmission mode in original system.

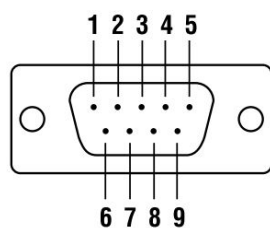
Application

ATC-863/871/873 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, intellectual 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.



Pin Assignment

RS-232 DB-9(Male)



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

RS-485/422 6-pin Terminal block

1	2	3	4	5	6
485+ (T+)	485- (T-)	R+	R-	VCC (9~32VDC)	GND

Specifications

Technical Characteristics		
Modulation mode	FSK/GFSK	
Working frequency	433MHz/868MHz/915MHz	
Transmission power	ATC-863/871	100mW
	ATC-873	500mW
Receiving sensitivity	ATC-863	-110dBm
	ATC-871	-121dBm
	ATC-873	-123dBm
Transmitting current	ATC-863/871	<360mA
	ATC-873	<75mA
Receiving current	ATC-863	<11mA
	ATC-871	<30mA
	ATC-873	<45mA
Sleeping current	ATC-863/871	<10uA
	ATC-873	<1mA
Channel speed rate	ATC-863	1200/2400/4800/9600/19200bps
	ATC-871/873	1200/2400/4800/9600/19200/38400bps
Interface speed rate	ATC-863	1200/2400/4800/9600/19200bps
	ATC-871/873	1200/2400/4800/9600/19200/38400bps
Change time for receiving and sending	<10ms	
Interface data format	8E1/8N1/8O1	
Power Supply	9-12V@200mA	
Physical Characteristics		
Installation	DIN-Rail Mounting	
Housing	Iron (1mm)	
Weight	0.45Kg	
Dimensions	100 × 86 × 26 mm(3.94 × 3.39 × 1.02 in)	
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	Frequency	Distance
ATC-863	RS-232/485 Mini Power Wireless Module	433/868/915MHz	300meter
ATC-871	RS-232/485 Mini Power Wireless Module	433/868/915MHz	500meter
ATC-873	RS-232/485 Mini Power Wireless Module	433/868/915MHz	1000meter
ATC-875	RS-232/485 Mini Power Wireless Module	433/868/915MHz	2000meter

Contact us

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