

DTR920 Transceiver

I . SUMMARY

DTR920 Wireless transceiver module adopt high-performance RF IC ,adopt high-efficient forward correct error by CRC , work steady and reliable while being at a high speed. Industry grades of standard, small and easy to install.

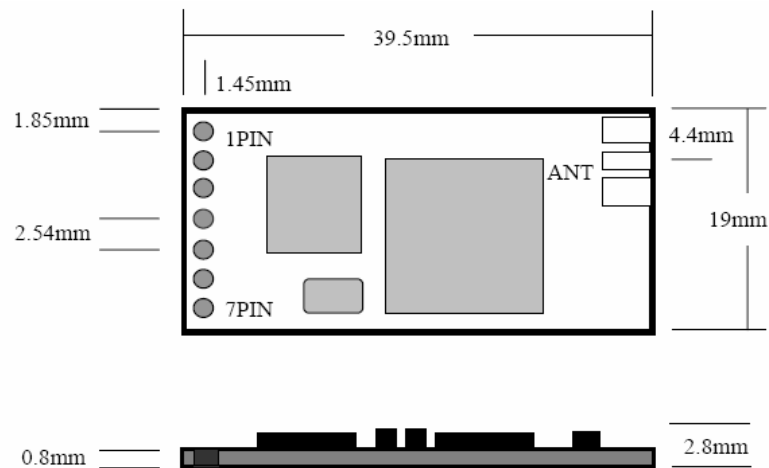
II . SPECIALITY

1. Miniature power: transmit power 70dBuV.
2. Carry frequency: 434MHz.
3. High anti-interference ability: adopt high-efficient forward correct error and check error by CRC, when the channel signals error code rates on the 10^{-2} , can receive error code rates of actual mistake 10^{-5} - 10^{-6} .
4. Transparent data transmission of half duplexing communication.
5. The wireless communication of high speed and big data buffering area.
6. Flexible set up: RF frequency ,series rate ,product ID.
7. Transmit distance: <600m.
8. interface: RS232, TTL, RS485
9. Low consumption and sleep function :receiving current <25mA, transmitting current<35mA,sleep current<20uA (baud rate=9600bps) .
10. DC Power:+5V
12. High dependability, industry standard.

III. TECHNICAL SPECIALITY

Parameter		value	unit
Frequency		434	MHz
Modulate Type		FSK	
Modulate Frequency Shift		± 30	KHz
Bandwidth		200	KHz
Output Power		70	dBuv
Humorous		< -60	dB
Output Impedance		50	Ω
Sensitivity		-113@1200bps	dbm
RF Rate		1200-9600	bps
Series Rate		1200-9600	bps
Current	Receive	< 25	mA
	Transmit	< 35	mA
Temperature		-40 -- +85	$^{\circ}\text{C}$
Shape Size		39*20*3	cm*cm
Communication Distance		600	m

IV. PIN DEFIN AND OUTSIZE



PIN	NAME	FUNCTION
1	GND	GND
2	VCC	5V
3	EN	LOW:SLEEP, HIGH:NOM
4	RXD	UART INPUT (TTL)
5	TXD	UART OUTPUT (TTL)
6	B/RX	485 B/RS232 INPUT
7	A/TX	485 A/RS232 OUTPUT

V: Application

Wireless Data Transceiver

- Ammeter, watch meter, gas meter wireless read meter
- Fire control, safe defend
- Traffic, meteorological phenomena, environmental data are gathered
- Intellectual district, parking area vehicle managing
- The controlling wirelessly of industrial automation and intelligence instrument.
- Logistics trail, the warehouse is patrolled and examined.
- Oil field、 gas field、 water conservancy、 mine data collect.

FCC Warning:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.