Radio Transceiver

RXQ3-XXX

Sub 1GHz Smart Radio Modem

General description

The RXQ3-XXX is a low-cost sub 1GHz radio modem with embedded microcontroller and dedicated firmware for transmission of serial data.

By using a UART interface for Transmitting and Receiving data and for issuing configuration command (AT Commands), it is possible for the user to develop systems quickly.
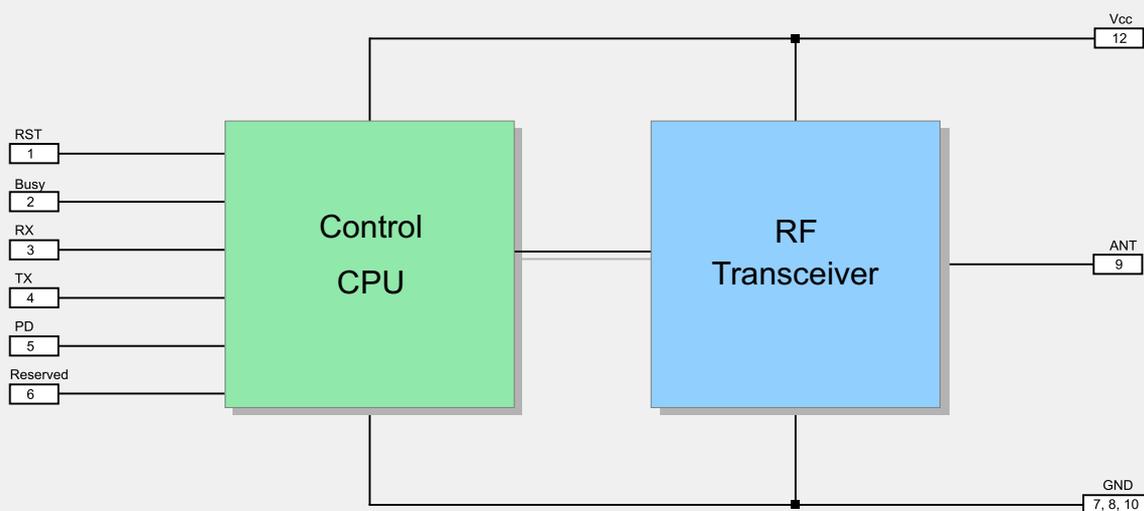
Features

High Reliability
DIL Package

Applications

Wireless alarm and security systems
Home and building automation
AMR - Automatic Meter Reading
Wireless Sensor networks
Industrial monitoring and control
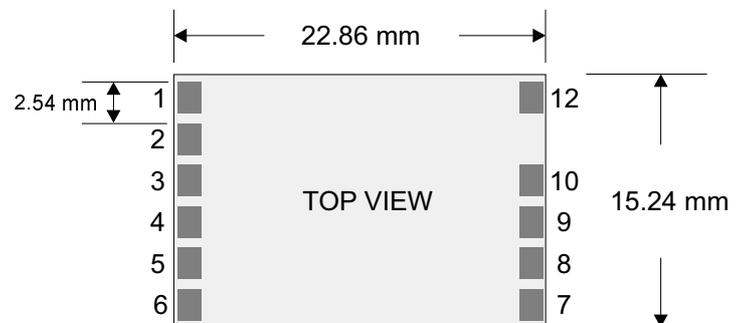
CIRCUIT SCHEMATIC

Electrical Characteristics

	CHARACTERISTICS	MIN	TYP	MAX	UNIT
V_{cc}	Supply Voltage	2.0	3	3.6	VDC
I_s	Supply Current (RX mode / TX mode)		20 / 33		mA
I_s	Supply Current (Power Down mode)		0.3		uA
P_O	RF Output Power into 50		10		dBm
	RF Sensitivity (1.2 Kb/sec Data Rate)		-110		dBm
	Data Rate	1.2		500	Kbit/s
	Wake-Up Time (PD to Actice Mode)		100		usec
T_{OP}	Operating Temperature Range	-25		+80	°C

Pin Description

1	RST	Reset
2	Busy	Busy
3	RX	UART Data Input
4	TX	UART Data Output
5	PD	Power Down
6	Reserved	
7	GND	Ground
8	GND	Ground
9	ANT	Antenna
10	GND	Ground
12	V_{cc}	Supply Voltage

Mechanical Dimensions

22.86 mm

2.54 mm

TOP VIEW

15.24 mm

1 12
2
3 10
4 9
5 8
6 7

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Web Site: www.telecontrolli.com