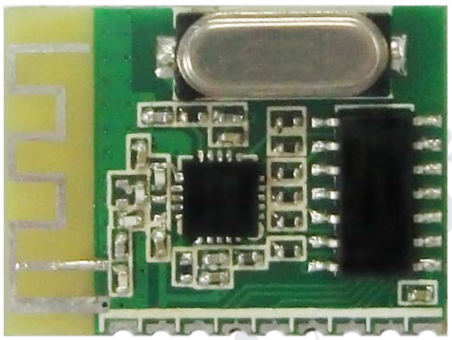
WENSHING®©

TRW-MCU24L01 MODULE

2.4G Low Power Radio Transceiver



Low power consumption and battery operation give the TRW-MCU24L01 the performance demanded for applications where long range and reliability are required.
The transceiver uses a transparent data interface to enable users to communicate using their own protocols.

Version History

Version	Date	Changes
V1.00	September 11, 2013	1st. Edition

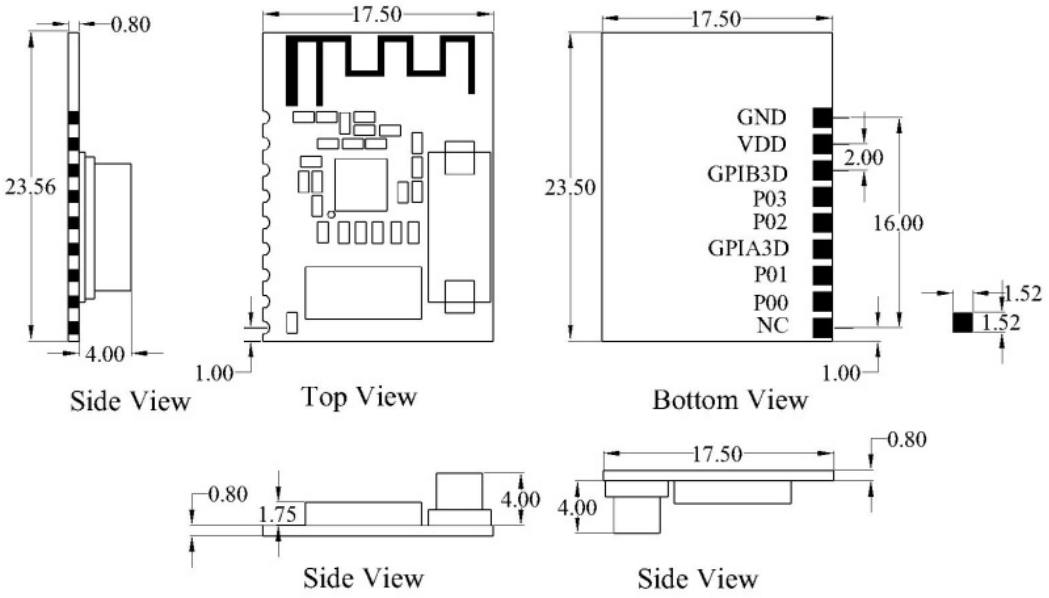
Key Features

- 2.4GHz
- 250kbps, 1Mbps and 2Mbps on air datarates
- Ultra low power operation
- Programmable power:, -25, -15, -5, 0, 5 dBm
- 900nA in power down
- 26μA in standby-I
- RF CHIP Drop-in compatibility with nRF24L0
- Low cost
- 1.9 to 3.6V supply range
- Enhanced ShockBurst™
- Automatic packet handling
- Auto packet transaction handling
- 6 data pipe MultiCeiver™

Applications

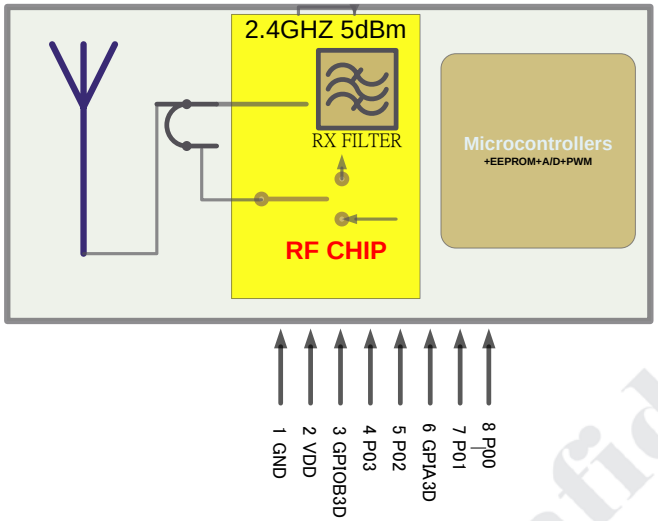
- Wireless PC Peripherals
- 3-in-1 desktop bundles
- Toys
- Sports watches and sensors
- Home and commercial automation
- Active RFID
- Mouse, keyboards and remotes
- Advanced Media center remote controls
- Game controllers
- RF remote controls for consumer electronics
- Ultra low power sensor networks
- Asset tracking systems

Size View



Block Diagram

TRW-MCU24L01 Function Block Diagram



Pin Function

Pin	Name	I/O	Description
1	GND	GND	Ground.
2	VCC	Input	+1.8 to +3.6 V Supply Voltage Input to Internal Regulators
3	OPIB3D	GPIO	Available according to customer specified output or input any functional
4	P03	GPIO	Ibid
5	P02	GPIO	Ibid
6	GPIA3D	GPIO	Ibid
7	P01	GPIO	Ibid
8	P00	GPIO	Ibid

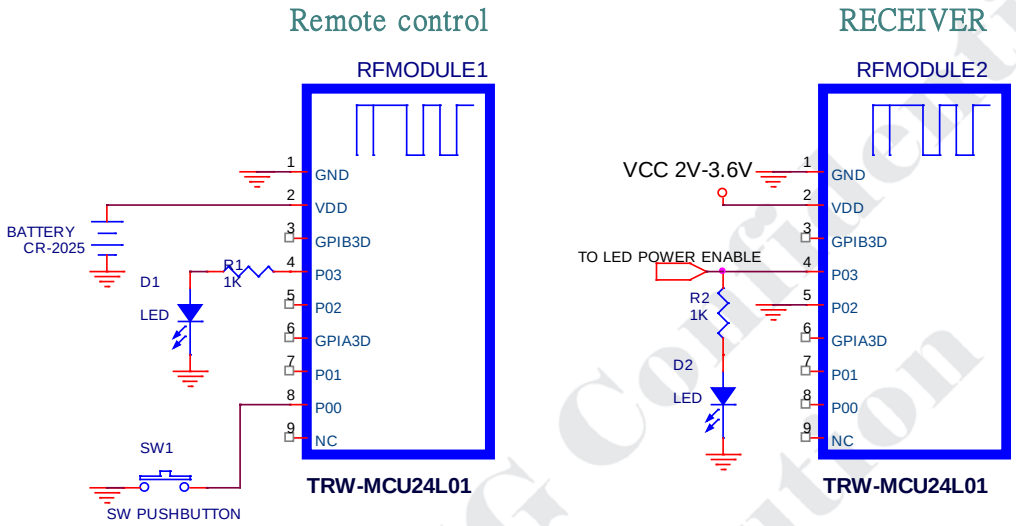
Hardware Specification

Specification

Conditions: VDD =VCC= +3.3V, VSS = 0V, TA =25ºC (Current level during lighting control)

Parameter	Description	Min	Type	Max	Unit
VDD	Supply Voltage Range	1.9	3.3	3.6V	V
FREQ	Operating frequency	2400		2484	MHz
IDC_TXMID	Standby		20		uA
IDC_TXMID	TX DC current,		28		mA
IDC_RX	RX DC current consumption		19		mA

Remote Control LED Light DEMO SCH



Remark：Antenna wiring should not be positioned above or under the ground layer, power layer and the other wirings.