

TRI Technosolutions Pvt. Ltd.

TRICoder - 84

Encoder – decoder for IR and RF based systems

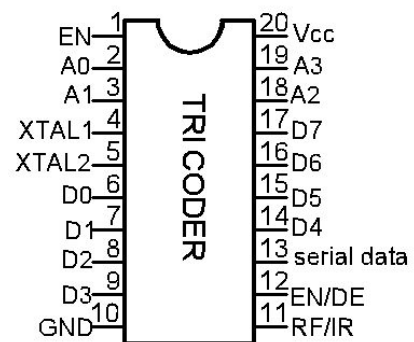


Features

- Operating voltage: 2.7V~6V
- Low power and high noise immunity CMOS Technology
- Low standby current
- Three words transmission
- Easy interface with an IR, RF
- Minimal external components

Applications

- Remote controlled robots
- Burglar alarm system
- Smoke and fire alarm system
- Garage door controllers
- Car door controllers
- Car alarm system
- Security system
- Other remote control systems

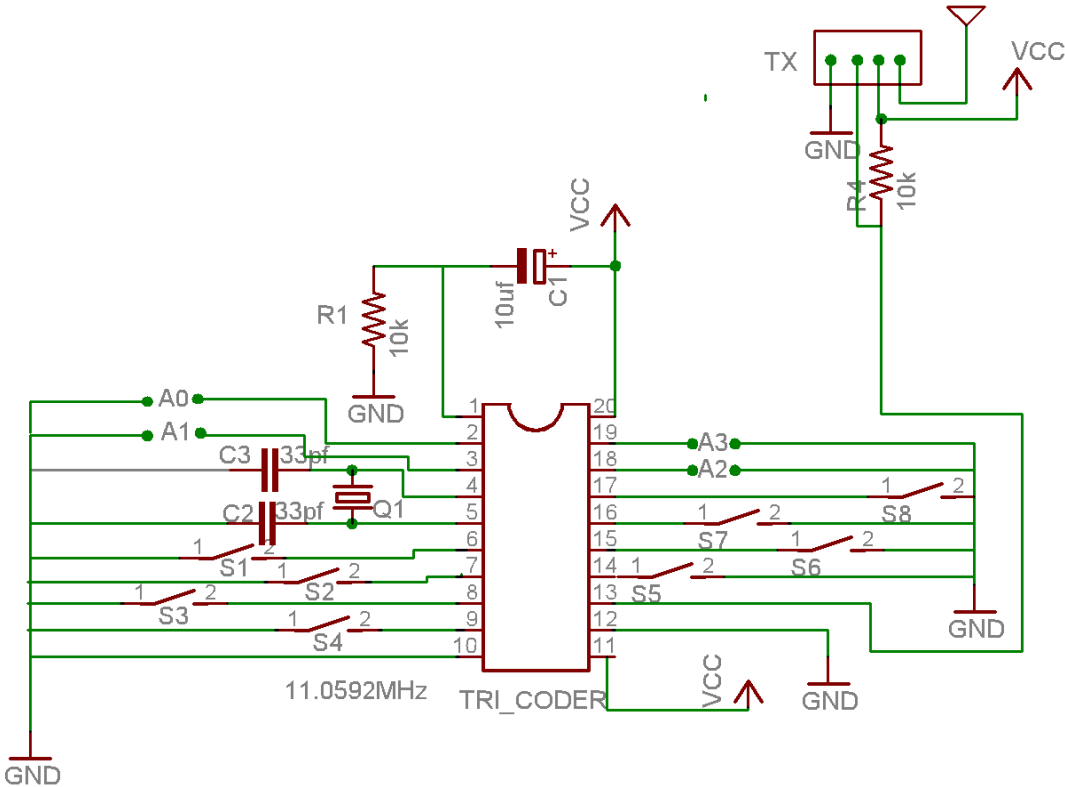


Pin Description

Pin name	I/O		Description	
	Encoder	Decoder	Encoder	Decoder
D0.....D7	I	O	Input pins for data (D0...D7) setting (all pins are active low)	Output pins for data (D0...D7) setting (all pins are active low)
A0.....A3	I	I	Input pins for address (A0...A3) setting	Input pins for address (A0...A3) setting
Rst	I	I	Input pin for reset the IC	Input pin for reset the IC
En/De	I	I	Input pin for EN/DE selection (EN =low, DE= high)	Input pin for EN/DE selection (EN =low, DE= high)
RF/IR	I	I	Input pin for RF&IR selection (RF=high IR=low)	Input pin for RF&IR selection (RF=high IR=low)
XTAL1,XTAL2	I	I	Input pins for crystal (11.0592M)	Input pins for crystal (11.0592M)
Serial data pin	I	I	Output pin for serial output data	Input pin for serial input data
GND	I	I	Negative power supply	Negative power supply
Vss	I	I	Positive power supply	Positive power supply

Application Circuits

RF Transmitter



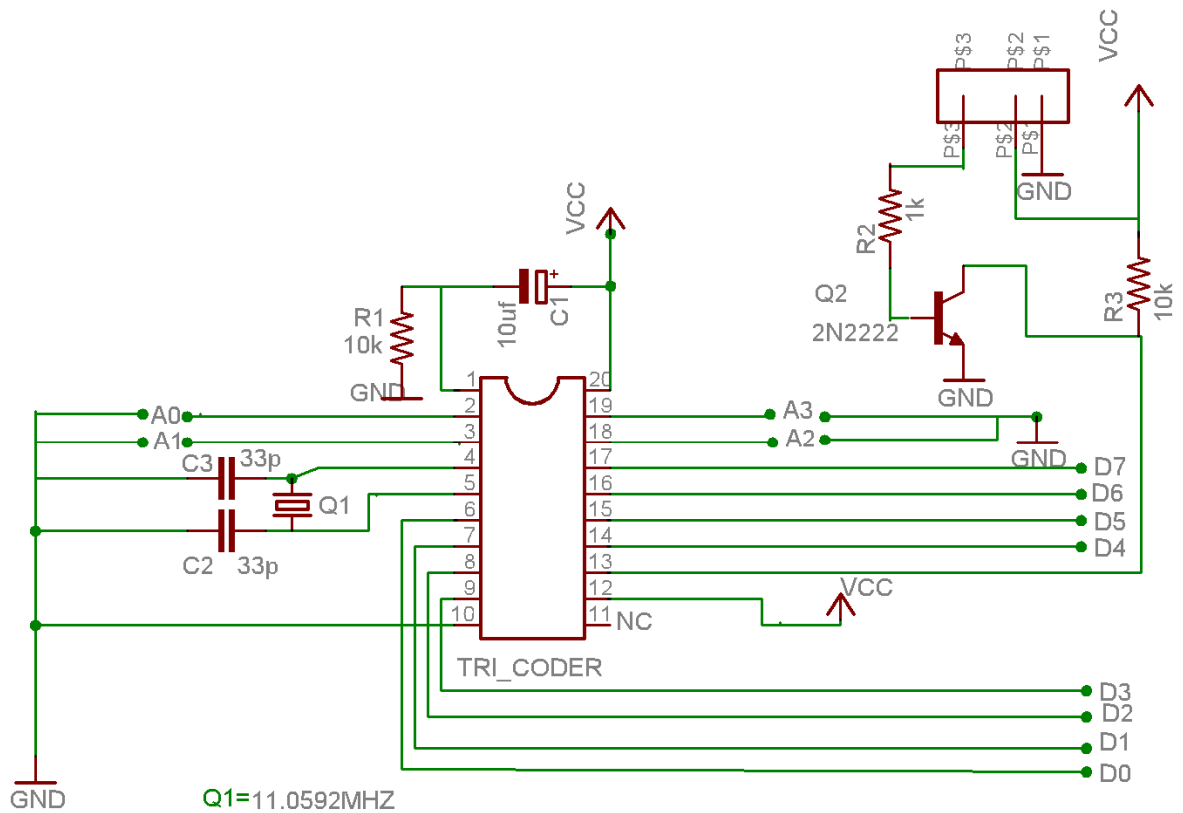
- VDD = VCC = 5v
- A0...A3= Address
- S1...S8= Switches
- Tx = Transmitter Module
- NC = Not connect
- X = 11.0592MHz crystal

IR Transmitter



- A0...A3 =Address
- S1...S8 =Switches
- X =11.0592MHz crystal

IR Receiver



VDD=VCC=5v

A0...A3 =Address

D0...D7 =Output data

NC =Not connect

X =11.0592MHz crystal