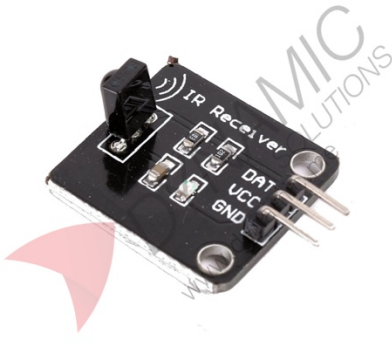


# 38KHz IR Digital Receiver Module



## **Features:**

The 38KHz IR Digital Receiver Module integrates a TSOP38438 infrared receiver optimized for 38KHz carrier frequency detection. It features internal automatic gain control and advanced filtering to suppress ambient light, flicker noise and non-modulated infrared interference. The module outputs a clean binary data signal suitable for direct interfacing with microcontrollers. Designed as a breakout board for easy integration, it operates from 3.3V to 5.5V and supports common IR protocols including NEC, Sharp and R-Step encoding. It is well suited for remote control systems, embedded IR communication and automation applications.

Specifications	
IR Sensor	TSOP38438
Carrier Frequency	38KHz
Minimum Cycles Per Burst	10
Output Signal Type	Binary data
Operating Voltage	3.3V to 5.5V DC
Signal Gain	Automatic, non adjustable
Supported IR Protocols	NEC, Sharp, R-Step
Mounting Hole Size	M2
Application	IR communication, remote decoding, embedded systems
Usage	Arduino and development board IR receiver integration

## **Pinouts:**

Pin Name	Type	Description
DAT	Output	Digital binary data output
VCC	Power	3.3V to 5.5V supply input
GND	Power	Ground

