

5V LED Traffic Light Module

Product Overview

The 5V LED Traffic Light Module features three LEDs in red, yellow, and green colors arranged in a traffic light configuration. This module operates on 5V DC power and uses digital signal output for control.



Technical Specifications

Parameter	Specification
Size	56 × 21 × 11mm

Weight	4g
Color	Red, Yellow and Green
LED	5mm × 3
Brightness	Normal brightness
Voltage	5V
Input	Digital signal output

Interface Configuration

Control Interface:

Interface: Common cathode red and yellow green control alone

Interface: Common cathode red yellow green separate control

Electrical Characteristics

Parameter	Specification
Current Limiting Resistor	331 Ω (built-in for each LED)
Control Logic	Active HIGH
Logic HIGH (LED ON)	3.3V or 5V
Logic LOW (LED OFF)	0V

Module Connections

Pin	Function
G	Green LED, active HIGH

Y	Yellow LED, active HIGH
R	Red LED, active HIGH
GND	Ground

Usage with Microcontrollers

The module has built-in current limiting resistors (331Ω for each LED), allowing direct connection to MCU pins without external components. The module can be plugged directly into the female header of most Arduino boards where you have 3 digital pins next to a ground.

Example Arduino Connection:

Connect to Arduino Uno pins 11, 12, 13 & GND

The LEDs are lit when a logic HIGH is applied to the pins.

Features

- Ultra-fast response
- Strong anti-interference ability
- High cost performance



- Ultra-low energy consumption
- Long transmission distance

Product Information

Category	Uncategorized
Tags	LED, LED Display