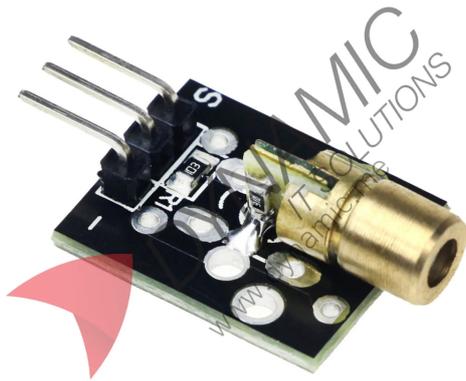


# Laser Transmitter Module



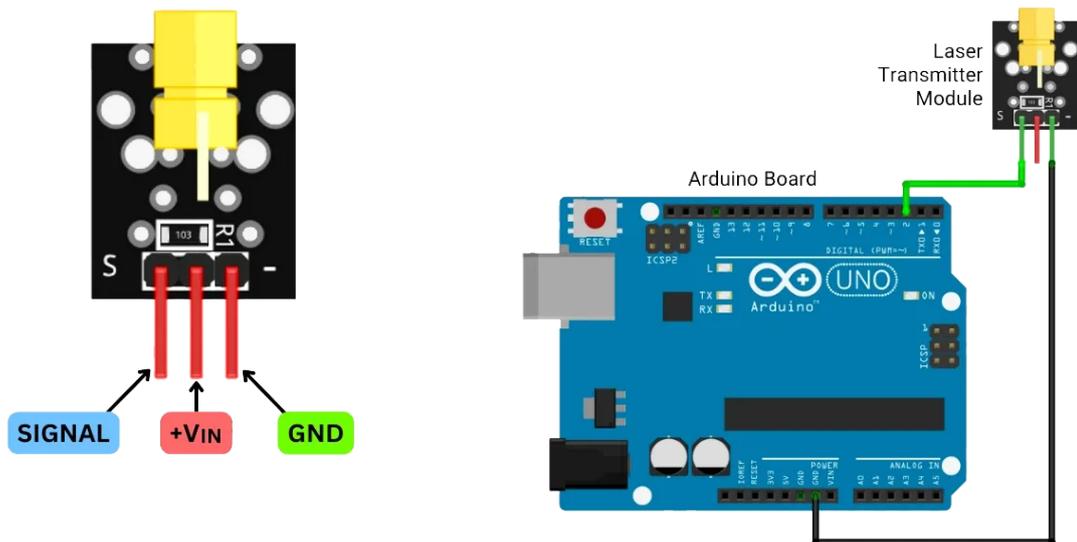
## **Features:**

The Laser Transmitter Module uses a 650 nm red laser diode to emit a focused, dot-shaped beam suitable for various applications such as laser pointers, object alignment, or basic security and detection systems. It operates on 5 V and is compatible with most microcontroller platforms like Arduino, Raspberry Pi, and ESP32. Its low current consumption and small footprint make it easy to integrate into embedded electronics projects.

Specifications	
Type	Laser transmitter
Laser Module	650 nm red laser diode
Output Wavelength	650 nm
Output Power	$\leq 5$ mW
Operating Voltage	5 V DC
Operating Current	$< 40$ mA
Operating Temperature	$-10$ °C to $+40$ °C
Dimensions	18.5 mm $\times$ 14 mm
Weight	$\sim 4$ g
Use Cases	Suitable for laser pointer projects, beam alignment, basic optical communication, and theft detection systems

### Pinouts:

Pin Name	Type	Description
<b>S</b>	Signal Input	Logical signal input (can be driven by microcontroller GPIO)
<b>Middle</b>	Power Input	Module supply voltage (5V DC)
<b>-</b>	Power Ground	Common ground reference



### Product Pictures:

