

RGB optical module



Overview

The RGB modules are designed for projection, imaging and illumination allows to achieve balanced white color, with the presence of three laser diodes - red, green, and blue. Each RGB module is based on brand, high-quality components. We are selling products with and without power. Ultra-compact RGB modules utilizing EXALOS low-threshold Visible laser diodes and/or SLEDs. This makes it possible to achieve full-color rendering. Our standard RGB laser modules cover a range of wavelengths including 405nm (violet), 450nm (blue), 520nm (green), 635nm. Compact laser module without compromises in terms of wavelength or optical output power. Perfectly matching the demand for industrial integration and scientific applications. Miniaturized laser module complete with controller and USB power supply in an incredibly small package. In addition to laser projection, these. Delve into ALTER's Miniaturized RGB Laser Module datasheet.



Article Content

Hot

RGB3SMM - 3W RGB laser module

The RGB3SMM is an OEM RGB module including a single mode red laser array, multimode green & blue lasers. The external TEC provides more efficient cooling. Suitable for graphics and beam

Dec 22, 2025 Hot

ams OSRAM Vegalax™ RGB Laser module prototype

24. January 2022 • New Vegalax™ surface-mount module halves the size of projection light engine in smart augmented reality/mixed reality glasses•

Oct 18, 2025 Hot

RAK14001 RGB LED Module NCP5623B

This 3-color RGB SMD LED module allows each of the 3 colors RGB to be independently controlled by a MCU in terms of brightness. Well-suited for DIY

Jun 24, 2026 Hot

RGB cameras: Definition, components, and integration

RGB camera modules have revolutionized the way images and videos are captured in embedded vision systems. Learn their definition, components, and method of

Aug 01, 2025 Hot

RGB Halo Kits

RGB Halo Kits one-stop shop for Multicolor Automotive Lighting Parts & Products like Halo Kits, Headlight DRL boards, Wheel Lights, HID, LEDs, Grill Lighting, install

Feb 05, 2026 Hot

Design of a Multi-Channel High-Power Color-Mixing

Optical characteristics of random microlens arrays provide inspiration for high-power color-mixing optical systems. By adding random microlens arrays

Jul 08, 2025 Hot

Ultracompact RGB laser diode module for near-to-eye displays

Abstract We demonstrate a miniaturized, full-color RGB light source module for near-to-eye display systems, incorporating three semiconductor laser diodes (LDs) that are integrated on a free-space,

Oct 05, 2025 Hot

Lambda Laser Modules | Ultra-precise tech Buy now

Compact laser module without compromises in terms of wavelength or optical output power. Perfectly matching the demand for industrial

Jan 22, 2026 Hot

Interfacing a TCS34725 RGB Color Sensor With Arduino

Guide to connecting and interfacing a TCS34725 RGB color sensor with Arduino. With complete wiring and code examples.

May 27, 2026 Hot

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

Aug 19, 2025 Hot

Micro-RGB Modules

This module is essential for augmented reality (AR) systems, where compact and lightweight optical modules are critical for improving visual clarity and reducing

Nov 23, 2025 Hot

M-Fibre RGB-LED Modul, 3W M-Fibre RGB-LED Module, 3W

Das M-Fibre RGB-LED-Modul 3 Watt wurde speziell für die Verwendung mit M-Fibre Seitenlichtfasern entwickelt. Im Inneren des LED-Moduls mischt eine im Durchmesser variierende Mischlinse das

Jan 22, 2026 Hot

How Single-Chip RGB-Laser DLP® Projectors Work—Versus Three-Chip RGB ...

Dedicated Laser Modules feed R, G, B light simultaneously into a dichroic splitter prism. Each colour hits its own DMD —three separate micromirror chips. 2.2 Optical Path Beam Splitter

Feb 20, 2026 Hot

RGB laser modules for laser projectors

The RGB modules are designed for projection, imaging and illumination allows to achieve balanced white color, with the presence of three laser diodes - red, green, and blue.

Apr 02, 2026 Hot

(PDF) Design of a Multi-Channel High-Power Color

The high-power optical system consists of a multi-channel reflector and a color-mixing component. The optical systems with different parameters are

Jun 19, 2026 Hot

RGB Laser Module | RGB Laser Diode Modules | IADIY

An RGB laser module combines three primary color laser diodes—red, green, and blue—into a single beam output. This type of module is used in full-color

Jul 28, 2025 Hot

RGB SLED/LD Modules

The module employs micro-optical lenses to collimate the light and dielectric edge filters to spectrally combine and align the RGB beams, ensuring high precision in

Dec 24, 2025 Hot

Multi-Color/RGB Lasers

User-defined multi-color/RGB laser modules with up to eight wavelengths.

Jan 04, 2026 Hot

RGB Laser Modules

The RGB multiplexed divergent beam light can be collimated by the customer using a single lens to obtain the optimum light source for Laser Beam Scanner (LBS)

May 22, 2026 Hot

RGB LEDs and lighting modules

Beleuchtungsringe, RGB LED stripes, einzelne LEDs und vieles mehr um deinen PC umfangreich zu beleuchten.

Dec 25, 2025 Hot

Miniaturised RGB laser module | ALTER

Delve into ALTER's Miniaturized RGB Laser Module datasheet. Uncover integrated optical and microelectronic sub-assembly, precision optical and thermal design

Nov 04, 2025 Hot

RGB Laser Modules for Imaging & Displays | YESWEHAVE

Designed for high-performance integration, an RGB Laser Module delivers precise red, green, and blue laser outputs in a compact, fiber-coupled system.

Aug 17, 2025 Hot

RGB Beam Combiners | Coherent

Build compact optical systems that combine or split red, green, and blue channels with Coherent high-performance, low-insertion loss components.

Apr 29, 2026 Hot

Optical Modules for Micro-LED Displays

Innovations in micro-LED optical modules drive brighter, more efficient, and versatile displays with enhanced color purity and integrated color conversion.

Oct 07, 2025 Hot

RGB lighting modules

The new Aurora HardTube LED rings with addressable RGB connection offer you the best modding options to control and stage your system like a pro. Optics at its

May 20, 2026 Hot

Opt Lasers 4W Mini RGB Laser Module with 7.5V PSU

Opt Lasers' 4 W Mini RGB Laser Module with 7.5 V PSU is a professional laser module with 1 W 520 nm Nichia laser diode, 1.6 W 450 nm Osram laser diode, 2

Nov 15, 2025 Hot

DIYables RGB LED Module for Arduino, ESP32, ESP8266, Raspberry Pi

DIYables RGB LED modules (10-pack) with built-in resistors and common cathode. Create any color with PWM control for Arduino,

May 03, 2026 Hot

How to Use an RGB LED Module With Arduino

The RGB LED module lets you make all sorts of colors with just four pins from the Arduino. Learn how to do it here!

Jan 04, 2026

Contact Us

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