

# Ambient Light Adjustment Module



## Overview

An intelligent, automated system that dynamically adjusts the screen's brightness in response to real-time ambient light conditions elegantly solves all three problems. It ensures optimal readability, minimizes power draw, and enhances operator comfort and safety. The TMD3725 features advanced proximity measurement, color sense (RGBC+IR), and digital ambient light sensing (ALS). The proximity detection. ROHM ambient light sensors feature optical characteristics close to the human eye, enabling automatic backlight adjustment in displays for lower power consumption and optimum visibility. Two common photo detectors used in ambient light sensing are phototransistor. The VEML7700 Ambient Light Sensor Module is a high-precision 16-bit digital light sensor that directly outputs illuminance in Lux (Lx). Each has unique features, ensuring you find one that meets your.

## Article Content

Sep 06, 2025

DATA MODUL Ambient Light Sensor Board (12042238)

DATA MODUL Ambient Light Sensor Board (12042238) Ambient light sensors detect the ambient brightness and automatically adjust the backlight brightness of displays.

Feb 04, 2026

Interfacing TSL2591 Ambient Light Level Sensor with

One commonly used integrated ambient light sensor is the TSL2591 sensor from ams-OSRAM USA INC, which uses a combination of photodiodes

Feb 12, 2026

LightSpace® Ambient Light Sensor (ALS), an Intelligent Digital ...

ALS is designed to be connected to ActiveLED C-Series power supplies and digitally control one or many ActiveLED lighting fixtures in a lighting network, allowing the automatic adjustment of ambient

Jul 01, 2025

7 Best Ambient Light Sensors of 2025 - Enhance Your

If you're looking to enhance your smart home setup, the TEMT6000 Ambient Light Sensor Module is an excellent choice. This package includes five sensors, perfect

Sep 21, 2025

Enable or Disable Adaptive Brightness in Windows 10

How to Enable or Disable Adaptive Brightness in Windows 10 Displays (especially on laptops and tablets) may utilize ambient light sensors to detect

Jan 24, 2026

VEML7700 Ambient Light Sensor

With I2C compatibility, it offers an easy plug-and-play solution for ambient light measurement in smart lighting, display brightness adjustment, and environmental

Oct 27, 2025

ams TMD3725 Color Sensor Module Ambient light,

The TMD3725 features advanced proximity measurement, color sense (RGBC+IR), and digital ambient light sensing (ALS). The package has been designed to

Jan 13, 2026

### CJMCU-TEMT6000 Ambient Light Sensor For Automatic Lighting

The CJMCU-TEMT6000 Ambient Light Sensor Module is designed to measure the intensity of visible light in a way that closely mimics the sensitivity of the human eye.

Sep 12, 2025

### AN52491 Implementing Ambient Light Sensing Using PSOC 1

This application note describes the firmware and hardware to interface ambient light sensors, and the signal processing of analog signals using the PSoC device.

Mar 07, 2026

### AMBIENT LIGHT SENSORS

Ambient light sensors are used to detect light or brightness in a manner similar to the human eye. They are most commonly found in industrial lighting, consumer electronics, and automotive systems,

Dec 12, 2025

What is the Ambient Light Sensor feature on a laptop, and how do

Ambient Light Sensor Functionality (ALS) When a Dell legacy laptop is equipped with an Ambient Light Sensor, it has a small square window that is located at the bottom edge of the LCD panel (Figure 1).

Jan 29, 2026

### Car Ambient Lighting Controller Ultimate Guide

The ultimate guide to car ambient lighting controllers - how to choose, install, innovations, and the future of in-car lighting customization.

May 06, 2026

### The Engineer's Guide to Automatic Ambient Light Adjustment in ...

An intelligent, automated system that dynamically adjusts the screen's brightness in response to real-time ambient light conditions elegantly solves all three problems. It ensures optimal

Jun 29, 2025

### How to Use Ambient Light Sensor: Examples, Pinouts, and Specs

Learn how to use the Ambient Light Sensor with detailed documentation, including pinouts, usage guides, and example projects. Perfect for students, hobbyists, and developers integrating the

Jun 14, 2026

Robokits India

Ambient Light sensor with digital output based on LDR and LM393.Features:Using photosensitive resistance sensor sensitive type.Working Voltage: 3.5V-5V.Output

Nov 11, 2025

OPT3001 data sheet, product information and support | TI

The OPT3001 is designed for systems that create light-based experiences for humans, and an ideal preferred replacement for photodiodes, photoresistors, or other ambient light sensors with less

Nov 28, 2025

Retrofitting ambient lighting – How to upgrade your car

If you want to upgrade your vehicle not only technically but also visually, retrofitting ambient lighting is an excellent option. It creates an atmospheric atmosphere, improves the driving experience at night and

Jul 13, 2025

Ambient Light Sensor Board

The board is designed to work with our proprietary eMotion NT scaler boards and features a high-sensitivity, low-power light sensor technology with I<sup>2</sup>C interface. It offers excellent IR

Oct 14, 2025

Ambient Light Sensor: Types, Circuit and Applications

An ambient light sensor is one kind of component which is utilized in mobile devices, smartphones, notebooks, LCD TVs, and automotive displays. Ambient light

Nov 17, 2025

A Guide to the TEMT6000 Ambient Light Sensor Module

The TEMT6000 Ambient Light Sensor Module is a sophisticated electronic component designed for precise ambient light detection and

Aug 16, 2025

Ambient Light Sensor Module | Acrome-SMD Docs

on the module. The Ambient Light Sensor Module is a light-sensitive measurement device suitable for a variety of applications, including educational settings and

Aug 04, 2025

What is the Ambient Light Sensor feature on a laptop, and how do

What is the Ambient Light Sensor feature on a laptop, and how do I adjust the settings? Summary: The Ambient Light Sensor automatically adjusts the brightness of the computer's LCD panel, based on

Nov 30, 2025

TEMT6000 Ambient Light Sensor Module

The TEMT6000 Ambient Light Sensor Module is a visible light to analog voltage converter for measuring the intensity of light.

Nov 17, 2025

A Simple Implementation of LCD Brightness Control

Ambient-light sensor (ALS) ICs are increasingly used in a variety of display and lighting applications to save power and improve the user experience. With ALS

Jun 07, 2026

LightSpace® Ambient Light Sensor (ALS), an Intelligent Digital ...

LightSpace ® Ambient Light Sensor (ALS) takes ambient light level and power management to the next level of automation. ALS is designed to be connected to ActiveLED C-Series power supplies and

Jun 22, 2026

Ambient Light Sensor ICs

ROHM ambient light sensors feature optical characteristics close to the human eye, enabling automatic backlight adjustment in displays for lower power consumption and optimum visibility.

## Contact Us

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