

# Microcontroller-based fill light module



## Overview

This project is a custom-built fill light controller based on the ESP32-C3. It provides adjustable color temperature, brightness, and a UV mode, making it a versatile tool for photography and videography lighting. During use, the fill light module (100) may be connected to other electric appliances by means of the. Our Intelligent lighting and control solutions can meet the technical needs of lighting engineers with includes a large array of 8-, 16-, 32-bit PIC® microcontrollers (MCUs), analog, wireless, and human interface products to meet the technical requirements of lighting engineers. The inconveniences cost encountered in electricity bills have called for an immense search for solutions. The microcontroller-based lighting control system offers everything necessary to put an end to these inconveniences as it incorporates an.



## Article Content

STC-based fill light,-EEWorld Reference Design Center

The light driver uses the domestic LGS63032 driver; you can apply for a sample from their website. This chip supports a maximum power input of 60V and a minimum of 3V, and it's an

WO/2025/045261 FILL LIGHT MODULE, CLEANING DEVICE,

A fill light module, a cleaning device, a control method and a related device. The fill light module (100) comprises a mounting member (110), a light source (120) and an adjustment member

Fill light module and terminal device

The present disclosure provides a fill light module, comprising a fill light (100), a shape memory alloy (SMA) motor (200), and a light distribution lens (300) arranged opposite to the fill light (100); the SMA

Microcontroller Based Automated Solution Filling Module

This paper is prototype to massive machines used to fill the liquid in the bottle with a fixed quantity or fixed level, it eliminates and reduces the chances of unevenness from bottle to bottle or inaccuracy

Fill light module and terminal device

the present disclosediscloses a fill light module to solve the problem that the fill light module of the current terminal device cannot match cameras with different field angles to...

DIY Thermal Camera: Build your Own Infrared Imaging

Create your own DIY thermal imaging camera using the ESP32 Wrover Module and MLX90640 sensor in affordable cost.

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The study of microcontroller based embedded system for smart

This technique allows increasing the resolution of luminous flux regulation (for amplitude mode dimming) and to simplify microcontroller based closed-loop control system in comparison with the ...

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## 8051 Micro Controller Projects & Circuits for Engineering

In this tutorial, we explain how to make a DIY automatic plant watering system using YL69 moisture sensor probe, YL38 comparator module and 8051 microcontroller.

Medium Level

(PDF) Design and Implementation of an Indoor light

Design and Implementation of an Indoor light supplement control system based on STM32 microcontroller July 2020 Journal of Physics

Advanced light control and diagnostics using SPC56xBx/RPC56xBx

This document offers an interesting example about the interconnection between the eMIOS, CTU, and ADC modules of the SPC56EC74 (one member of the SPC56xB/RPC56xBx/Cx family) in a lighting

Intelligent Lighting and Control | Microchip Technology

Featuring advanced peripheral integration and support for all lighting technologies, including LED and fluorescent, our scalable solution provides significant flexibility

Microcontroller Based Lighting Control System

controller – based lighting control system. As a monitoring and control system, the microcontroller was used to read in data values from the input device and interact with the outside world. The system

Intelligent Lighting & Control Solutions

With advanced peripheral integration and support for all lighting technologies, a scalable Microchip solution provides significant flexibility versus that of pure analog or ASIC implementation.

Interfacing OLED Display with ESP32

In this article, we will discuss how OLED Display module works, how to interface it with ESP32 and we will also learn to display text and characters on

Automatic filling Machine using advance Cypress Microcontroller

Abstract: The project is based on Industrial application of Barrel filling or liquid filling in bottles or at petrol pumps. The empty bottle is kept on a platform scale which is a load cell and a fill command is given

Solar Plant Fill Light Based on Time-Sharing Control

In order to solve these problems and to realize the concept of energy saving and intelligent management, this study proposes a solar-based plant fill light system for greenhouses.

Design and implementation of microcontroller-based solar charge ...

This paper presents the modeling, design, and implementation of a rapid prototyping low-power solar charge controller with maximum power point trackin

Universal motor speed control and light dimmer with TRIAC and

Introduction This application note describes a traditional design solution for controlling a mono phase motor or any AC load based on phase-angle adjusting with a TRIAC or AC switch and a

In-Depth: Interface OLED Graphic Display Module with

Learn about OLED display module along with its Wiring with ESP32, Library & Code for Displating Text, Drawings & Bitmaps

A Prototype of Density-Based Intelligent Traffic Light ...

Hence intelligence-based traffic light control system is a better solution. In conventional traffic light systems, prior a fixed timing is set for the lights. But they are not desirable as they don''t

8051 Microcontroller Projects for Engineering Students

Microcontroller Based Stout Robot with Automatic Crack Detection in Railways: In this project, a prototype model of robotic vehicle is implemented to

Intelligent Lighting and Control | Microchip Technology

Our intelligent lighting and control solutions, which includes a large array of PIC microcontrollers (MCUs), can meet the technical needs of lighting engineers.

## Contact Us

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