

CY3267 PowerPSoC Lighting Evaluation Kit

Last Updated: Aug 30, 2018



The CY3267 PowerPSoC™ Lighting Evaluation Kit enables designers to evaluate Cypress' PowerPSoC family of devices and demonstrates their ability to create scalable LED management solutions. The PowerPSoC devices feature high performance power electronics including 1A, 2 MHz power FETs, hysteretic controllers, current sense amplifiers, and PrISM™ modulators to create a complete solution for LED power management. Right out of the box, the CY3267 Kit can be used to evaluate PowerPSoC's ability to drive 4 LED channels (Red, Green, Blue and Amber) at the desired color and brightness output.

Kit Contents

The CY3267 PowerPSoC Lighting Evaluation Kit contains:

- CY3267 PowerPSoC main board
- CY3267 LED daughter board
- 12 V, 2 A power supply
- Optical diffuser
- Retractable USB cable
- CY3217-MiniProg1 Programmer
- 5 PowerPSoC CY8CLED04D01-56LTXI samples
- Quick Start Guide
- Kit CD which includes
 - PSoC Designer
 - PSoC Programmer
 - Intelligent Lighting Control GUI
 - Demo firmware
 - Design files
 - Related documents

Featuring:

- Out-of-box evaluation experience using the PowerPSoC Main Board, RGBA LED daughter card and Intelligent Lighting Control GUI, all included in the kit
- Kit default firmware demonstrates HB-LED control with intelligent color mixing using PowerPSoC
- Interface to custom LED daughter boards through screw terminals from the PowerPSoC mother board
- Flexible input voltage options (7 V to 32 V)
- Debug capability provided by the PowerPSoC On Chip Debugger (OCD) device and RJ-45 jack that connects to CY3215DK ICE Cube Emulation Kit (sold separately)
- PC USB connectivity through on-board USB controller
- CY3271 FirstTouch RF Kit* Connector
- CyFi Radio Module* Connector

RELATED RESOURCES

[Development Kits/Boards \(7\)](#)
[Datasheets \(1\)](#)
[Design Guides \(2\)](#)
[Application Notes \(2\)](#)
[Other Resources \(1\)](#)

RELATED PAGES










[Lighting & Power Control](#)
[PowerPSoC® Power](#)
[Controllers](#)

While the Main Board provides connectors for CY3271 FirstTouch RF Kit and the CyFi Radio Module, these are not enabled in the kit default firmware. You can also develop firmware to add a DMX512* or DALI* interface to PowerPSoC and use the 5-pin header J12 to connect to a suitable external interface circuit.

* - Communications hardware not included; contact applications support for assistance

Software Title	Description	Link
PSoC Designer	This kit requires PSoC Designer for development	Download
PSoC Programmer	This kit requires PSoC Programmer for programming	Download

Related Files

File Title	Language	Size	Last Updated
 CY3267 PowerPSoC® Lighting Evaluation Kit User Guide.pdf	English	3.21 MB	06/01/2017
  Download CY3267 PowerPSoC Lighting Evaluation Kit ISO	English		12/09/2015
  Download CY3267 Kit Only (Kit Design Files, Examples, Documentation)	English	17.2 MB	12/09/2015
 CY3267 - Quick Start Guide.pdf	English	4.09 MB	12/07/2015
 CY3267 - Release Notes.pdf	English	248.03 KB	12/07/2015
 USB-I2C Bridge Kit - Code Examples.zip	English	1.19 MB	12/07/2015
 CY3267 Board Design Files (Schematic, Layout, Gerber, BOM).zip	English	3.19 MB	12/07/2015

Need help? Ask a question and find answers in the [Cypress Developer Community Forums](#).

Low/intermittent bandwidth users tip: Firefox and Chrome browsers will allow downloads to be resumed if your connection is lost during download.

Related Resources

Development Kits/Boards		
CY3271 PSoC® FirstTouch™ Starter Kit with CYFi™ Low-Power RF		09/07/2018
CY3270 PSoC FirstTouch Starter Kit		01/24/2018
CY3271-EXP1		09/07/2018
CY3215-DK In-Circuit Emulation Development Kit		01/29/2018
CY3268 PowerPSoC Lighting Starter Kit		08/28/2018
CY3271-RFBOARD Wireless Expansion Kit		08/31/2018
CY3215A-DK In-Circuit Emulation Lite Development Kit		01/29/2018
Datasheets		
CY8CLED04D01, CY8CLED04D02, CY8CLED04G01, CY8CLED03D01, CY8CLED03D02, CY8CLED03G01, CY8CLED02D01, CY8CLED01D01: PowerPSoC® Intelligent LED Driver		12/20/2015
Design Guides		
CY8CLED0xx0x - PowerPSoC® Firmware Design Guidelines, Lighting Control Interfaces		05/03/2017
CY8CLED0xx0x: Topology and Design Guide for Circuits using PowerPSoC®		05/05/2015
Application Notes		
AN58717 - PLC - LED Lighting Control using Powerline Communication		12/14/2017
AN60934 - Remote, High Brightness LED Control Using PowerPSoC® and Powerline Communication (PLC)		02/25/2018
Other Resources		
Using Breakout Boards to Enable Lighting Protocols on the CY3267 PowerPSoC® Lighting Evaluation Kit – KBA90579		01/13/2014

SOLUTIONS

Automotive
Industrial
Consumer

PRODUCTS

Wireless
Microcontrollers (MCUs)
Memory
Universal Serial Bus (USB)
Power Management
Touch Sensing
Clocks & Buffers

DESIGN SUPPORT

Community
Videos
Quality & Reliability
Product Roadmaps

CORPORATE HEADQUARTERS

Cypress Semiconductor
Corp.
198 Champion Court
San Jose, CA 95134 USA
Tel: +1-408-943-2600

CUSTOMER SERVICE SUPPORT

+1-800-541-4736
Hours:
8:00AM - 5:00PM (local
time)
Create a MyCase
Cypress Developer
Community

INTERNATIONAL SUPPORT

+1-408-943-2600
United States +1-800-541-
4736
Hours:
4:30AM - 1:30PM (pacific
time)
7:30PM - 4:30AM (standard
time)

OTHER REQUESTS

Contact Us
Report a Website Problem

[ABOUT US](#)

[CAREERS](#)

[INVESTORS](#)



© Cypress Semiconductor Corporation. All rights reserved.

