



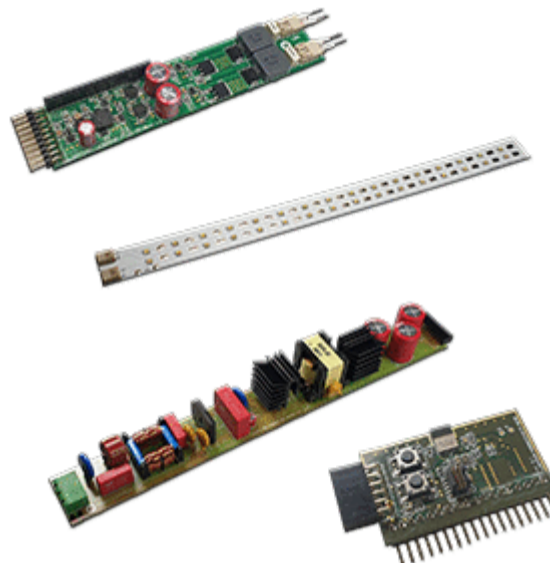
Home > Support > Design Resources & Documents > Evaluation/Development Tools

# LIGHTING-1-GEVK: Connected Lighting Platform for LED Control

The Connected Lighting Platform is a modular development kit for prototyping cost-effective, industrial LED lighting solutions. The platform is extremely energy efficient and features wireless control (on/off, dimming, etc.) and two independently controlled LED channels that provide a maximum brightness of 7000 lumens.

The base platform comprises of four components:

- An LED module, supporting 2 strings (warm white and cool white) of 16 LEDs
- A Bluetooth(R) Low Energy connectivity board featuring RSL10 SIP
- An AC/DC power board (Vin AC: 90 - 270V, Vout DC: 55V, Pout electrical: 70W, Power Factor > 0.99 at full load)
- An LED driver board featuring FL7760 (Dimming down to 0.6%, Telemetry data, 12-bit PWM)



The platform provides several LED control functionalities using the RSL10 Sense and Control mobile app (iOS, Google Play) or web client. The platform is supported by a comprehensive development environment, including a CMSIS-Pack featuring customizable firmware, Free RTOS, and various use cases.

The PoE Power Module is available separately for Power Over Ethernet (PoE) connectivity up to 90 Watts.

## Features and Applications

### Features

- High-power lighting features
  - Up to 2 Strings of 16 LEDs (7000 Lumen)
  - Dual independent LED Channel
  - White balance control (12-bit Dimmer from 0 to Max)
- Multiple connectivity options
  - Bluetooth® Low Energy
  - Power Over Ethernet (PoE)
- Compliant with multiple industry standards
- High efficiency power conversion ( >90% at full load )

## Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
LIGHTING-1-GEVK	Active	Pb-free	Connected Lighting Platform for LED Control	ES1JFL , ES3D , FCPF400N80Z , FDC3535 , FDD10N20LZTM , FL7740MX , FL7760BM6X , GBU6K , MM3Z18VT1G , MMSZ22T1G , MMSZ4V3T1G , NCH-RSL10-101S51-ACG , NCP10671BD100R2G , NCP161ASN330T1G , NSBC114EPDXV6T1G , RURP1560-F085 , US1MFA	<a href="#">» Contact Local Sales Office</a> <a href="#">» Inventory</a>

## Technical Documents

Type	Document Title	Document ID/Size	Rev
Software	ON Semiconductor IDE Installer	ON Semiconductor IDE Installer - 496081 KB	3
Software	RSL10 Software Package	RSL10 Software Package - 38405 KB	4
Software	ARM.CMSIS-FreeRTOS.10.3.0	ARM.CMSIS-FreeRTOS.10.3.0 - 46526 KB	0
Software	ARM.CMSIS.5.6.0	ARM.CMSIS.5.6.0 - 101097 KB	0
Eval Board: Schematic	LIGHTING-1-GEVK 3D Schematic	LIGHTING-1-GEVK_3D_SCHEMATIC - 6463 KB	0
Eval Board: BOM	LIGHTING-1-GEVK Bill of Materials (ROHS Compliant)	LIGHTING-1-GEVK_BOM_ROHS - 2207 KB	0
Eval Board: Gerber	LIGHTING-1-GEVK Gerber Layout Files (Zip Format)	LIGHTING-1-GEVK_GERBER - 6242 KB	0
Eval Board: Schematic	LIGHTING-1-GEVK Schematic	LIGHTING-1-GEVK_SCHEMATIC - 837 KB	0
Software	Connected Lighting Platform FOTA Firmware	LIGHTING-KIT_FOTA_IMAGES - 753 KB	1
Software	Connected Lighting Platform Getting Started Guide	Connected Lighting Platform Getting Started Guide - 1476 KB	1
Video	Connected Lighting Platform for LED Control	WVD17382/D	
Video	Bruno Damien Interview with EETimes: Innovation in Smart Homes and Buildings	WVD17385/D	
Eval Board: Manual	Connected Lighting Platform User Manual (LIGHTING-1-GEVK)	EVBUM2705/D - 1775 KB	0
Software	Bluetooth IoT Development Kit CMSIS Pack	ONSemiconductor.BDK.1.15.2.pack - 31699 KB	0

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### Connected Lighting Platform for LED Control



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