LIGHTING-POWER-POE-GEVB: Power Over Ethernet (PoE) Power Module (90 Watts), Connected Lighting Platform

The Power Over Ethernet (PoE) module adds reliable, high-power PoE connectivity to the Connected Lighting Platform. Featuring the IEEE 802.3bt compliant NCP1096 Interface Controller, the module supports up to 90 Watts of power.
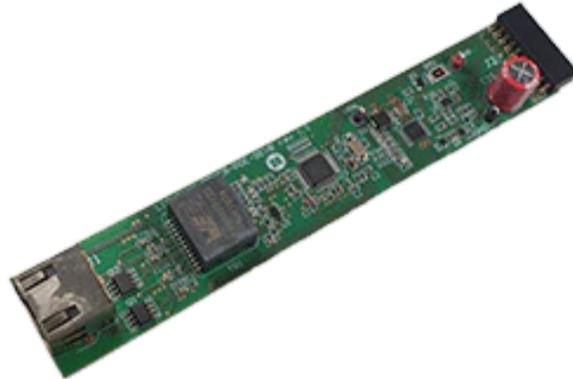
Features and Applications

Features

- Based on the NCP1096
  - Supports up to 90 Watts of power
  - IEEE 802.3bt compliant, compatible with 802.3af, 802.3at injector power supplies
- Automatic MPS circuit to maintain power signature (Simulation model available as well)
- GreenBridge™ 2 rectifiers Output voltage ~56 V defined by PoE standard
- Power Device Class 8 required (duty cycle limited for lower classes)

Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used
LIGHTING-POWER-POE-GEVB	Active	Pb-free	Power Over Ethernet (PoE) Power Module (90 Watts), Connected Lighting Platform	2N7002LT1G , BC846BDW1T1G , BC846BPDW1T1G , FDMQ8205A , FXL6408UMX , LC03-6R2G , MM3Z5V1B , MMBZ27VALT1G , NCP1096PAG , NSP4201MR6T1

Technical Documents

Type	Document Title	Document ID/Size	Rev
Software	onsemi.BDK.1.19.0.pack	Bluetooth IoT Development Kit CMSIS Pack - 44511 KB 🔒	7
Eval Board: Schematic	LIGHTING-POWER-POE-GEVB 3D Schematic	LIGHTING-POWER-POE-GEVB_3D_SCHEMATIC - 1712 KB	0
Eval Board: BOM	LIGHTING-POWER-POE-GEVB Bill of Materials (ROHS Compliant)	LIGHTING-POWER-POE-GEVB_BOM_ROHS - 597 KB	0
Eval Board: Schematic	LIGHTING-POWER-POE-GEVB Schematic	LIGHTING-POWER-POE-GEVB_SCHEMATIC - 956 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	
Eval Board: Manual	Connected Lighting Platform User Manual (LIGHTING-1-GEVK)	EVBUM2705/D - 1775 KB	0

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