

## Texas Instruments - UCC28810EVM-002 - Evaluation Module

### Product Overview:

The UCC28810EVM-002 is a constant current non-isolated power supply for LED lighting applications. It will convert universal mains (90 VRMS to 264 VRMS) to a 0.9-A constant current into a 100-W load. This evaluation module will allow the customer evaluate the UCC28810/11 in a typical LED lighting application.



### Kit Contents:

- Includes UCC28810EVM-002 board.

### Key Features:

- 90 VRMS to 264 VRMS operation
- Boost Follower or Fixed Output PFC Stage
- PFC Disable
- Output Current Disable
- External or Internal PWM Dimming

### Ordering Information:

#### Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
UCC28810EVM-002	TI	1824822	25R0175

### Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
UCC28810D	TI	LED DRIVER LINEAR 8-SOIC	1755591	50R6957

UCC28811D	TI	LED LIGHTING POWER CONTROLLER	1689434	19P7480
FMMT560	Diodes INC	TRANSISTOR, PNP	9525114	96K9959
STP6NK50Z	ST Microelectronics	N CHANNEL MOSFET, 500V, 5.6A	NA	37M6953
IRF840APBF	International Rectifier	MOSFET, N, 500V, 8A	8648557	63J7412
HFA08TB60S	International Rectifier	DIODE, SOFT RECOVERY, 8A	9101454	97K1334

### Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
UCC28810EVM-001	TI	UCC28810 25-W PFC Flyback LED Converter Evaluation Module	UCC28810	NA	09R6753
UCC28810EVM-003	TI	110-W Multiple String LED Driver with Universal Line Input and PFC Evaluation Module	UCC28810	1824823	51R5931

### Document List:

### Datasheets:

Part Number	Description	Size
UCC28810	<a href="#">LED Lighting Power Controller</a>	1108KB
UCC28811	<a href="#">LED Lighting Power Controller</a>	1108KB
FMMT560	<a href="#">PNP SILICON PLANAR HIGH VOLTAGE TRANSISTOR</a>	481KB
STP6NK50Z	<a href="#">Zener-Protected SuperMESH™ MOSFET</a>	399KB
IRF840APBF	<a href="#">Power MOSFET</a>	113KB
HFA08TB60S	<a href="#">DIODE, SOFT RECOVERY</a>	256KB

## Application Notes:

File Name	Size
<a href="#">Using the UCC28810EVM-00, 25-W PFC Flyback LED Converter (Rev. B)</a>	2026KB
<a href="#">UCC28810EVM-003 110W Multiple String LED Driver with Universal Line Input and PF (Rev. A)</a>	667KB
<a href="#">Non-Isolated 240W Offline LED Driver Using UCC28810, and UCC28811</a>	505KB
<a href="#">Isolated 240W Offline LED Driver Reference Design Using UCC28810, UCC28811, and</a>	652KB

## Other Resources:

File Name	Size
<a href="#">LED Reference Design Cookbook (Rev. A)</a>	6675KB
<a href="#">Lighting: Multi String LED Driver</a>	-
<a href="#">TV: LCD/Digital</a>	-