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## NCP1606BOOSTGEVB:NCP1606 100 W BOOST Evaluation Board

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### Evaluation Board Description

The NCP1606 is an active power factor controller specifically designed for use as a pre-converter in electronic ballasts, ac-dc adapters and other medium power off line converters (typically up to 300 W). It embeds a Critical Conduction Mode (CRM) scheme that substantially exhibits unity power factor across a wide range of input voltages and power levels. Housed in a DIP8 or SOIC-8 package, the NCP1606 minimizes the number of external components. Its integration of comprehensive safety protection features makes the NCP1606 an excellent driver for rugged PFC stages.



This evaluation board is a PFC pre-converter featuring the NCP1606B. It is designed to operate over universal lines (88 - 264 Vac, 47 - 63 Hz) and produce a 400 V output at up to 100 W. This output is suitable for driving typical SMPS stages or resistive loads.

### Features and Applications

#### Features

- ? Unity Power Factor
- ? No need for input voltage sensing
- ? Latching PWM for Cycle by Cycle On Time Control (Voltage Mode)
- ? High Precision Voltage Reference ( ± 2.4% over the Vcc and temp. ranges)
- ? Very Low Startup Current Consumption (? 50 μ A)
- ? Low Typical Operating Current (3 mA)
- ? -500 mA / +800 mA Totem Pole Gate Driver
- ? Undervoltage Lockout with Hysteresis
- ? Pin to pin compatible with L6561/2, TDA4863, FAN7527, etc.
- ? Programmable Overvoltage Protection
- ? Protection against Open Loop (Undervoltage Protection)
- ? Accurate and Programmable On Time Limitation
- ? Overcurrent Limitation

### Evaluation Board Information

Evaluation Board	Short Description	Status	Parts Used	Action
NCP1606BOOSTGEVB	NCP1606 100 W BOOST Evaluation Board	Active	NCP1606BPG	<a href="#">Buy</a> <a href="#">Contact Local Sales Office</a>

### Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1606BOOSTGEVB Bill of Materials ROHS Compliant	NCP1606BOOSTGEVB_BOM - 94.0 KB	0
Eval Board: Gerber	NCP1606BOOSTGEVB Gerber Layout Files (Zip Format)	NCP1606BOOSTGEVB_GERBERS - 95.0 KB	0
Eval Board: Schematic	NCP1606BOOSTGEVB Schematic	NCP1606BOOSTGEVB_SCHEMATIC - 137.0 KB	0
Eval Board: Test Procedure	NCP1606BOOSTGEVB Test Procedure	NCP1606BOOSTGEVB_TEST_PROCEDURE.PDF - 173.0 KB	0