



# HV96001 LED Driver Evaluation Board

**Part Number: ADM01030**

## Summary

HV96001 Off-Line LED Driver Evaluation Board is fully assembled and tested to evaluate and demonstrate the HV96001 LED driver. In the primary side, the Flyback converter has implemented an active Power Factor Correction (PFC) control algorithm by a PIC controller that commands the switching sequence in such a manner that the input current follows the input voltage envelope.

## Package Contents

The HV96001 Off-Line LED Driver Evaluation Board Kit includes:

- HV96001 Off-Line LED Driver Evaluation Board (ADM01030)
- Important Information Sheet

# Product Features

## HV96001 DEVICE – KEY FEATURES

- Linear (analog) dimming with wide range of the amplitude control of the LED current
- PWM (digital) dimming, dims down to 0.01% and lower, with PWM pulse width down to 150 ns
- Flyback converter control with automatic output voltage adjustment for maintaining high system efficiency
- Boost converter with near zero output voltage ripple for ripple free LED current
- VDD internal regulator with 60V input voltage capability/5V output voltage, 10 mA drive for supplying external loads
- Fault recovery with auto-retry delay
- Undervoltage detection of VDD voltage and for supply voltage (flyback output voltage)
- Overvoltage detection of the LED load voltage (boost output voltage)
- Overcurrent detection of the load switch current
- Stuck-at-zero detection of the DIM input signal