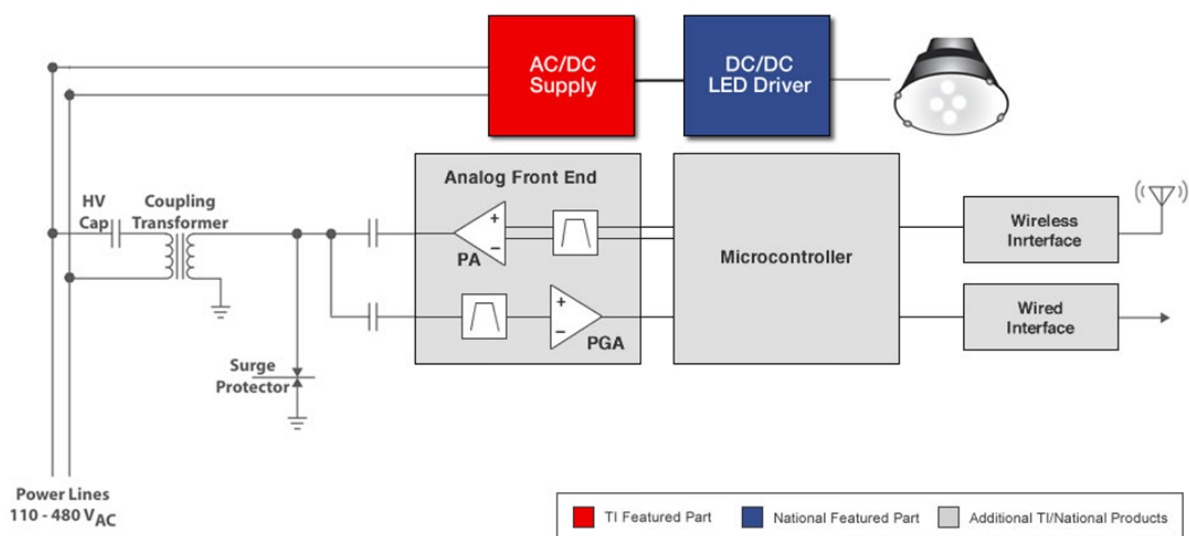


# An Innovative High Bay LED Lighting Solution

## Description:

By combining LED lighting with low power wireless technology such as ZigBee, significant savings can be made on the control circuitry, especially in larger buildings where the control cable would otherwise need to be long enough to reach the operator. The energy efficiency and life span of LED fixtures also makes them an obvious candidate for a high bay lighting solution, where maintenance and repairs to installations of conventional lighting would otherwise require the workforce to be carrying out work at height on a regular basis. Until recently, metal-halide lamps have been most commonly used in high bay luminaires, though advances in LED technology have meant that instead of vast arrays of LEDs, single high power LEDs can be utilised to provide bright lighting in easy to control areas of the building. Smart solutions based on synchronising overhead lighting with the movement of workers or machinery around a warehouse would also be relatively simple to implement using low power MCUs, wired or wireless interfaces and LED lighting, contributing to further efficiency savings.



## Key Features:

- Industry leading lumens/watt (efficacy)
- Universal AC Input 90Vac to 277Vac
  - Greater than 0.97 Power Factor
- Easy-to-implement multi-string LED array driver
  - Ensures consistent light output and color
- Regulated and dimmable current with reliable thermal profile
- Variable lighting patterns

## Main Devices:

Part Number	Description	Farnell order code
UCC28810D	Active PFC LED Power Controller	<a href="#">1755591</a>
TPS92020D	Resonant Switching LED Driver Controller	<a href="#">1855135</a>
LM3409HV	Constant Current Buck LED Driver	<a href="#">1778581</a> <a href="#">1778581RL</a>

## Associated Products:

Part Number	Description	Farnell order code
UCC28810EVM-002	Constant Current Supply with PFC for 100-W LED Evaluation Module	<a href="#">1824822</a>
UCC28810EVM-003	Multiple String LED Driver with Universal Line Input and PFC Evaluation Module	<a href="#">1824823</a>
LM3409HVEVAL	Constant Current Buck LED Driver Evaluation Board	<a href="#">1824613</a>