INTRODUCING HVPAK™

UPGRADE YOUR SMART HOME DEVICE WITH A STATE-OF-THE-ART MOTOR DRIVER

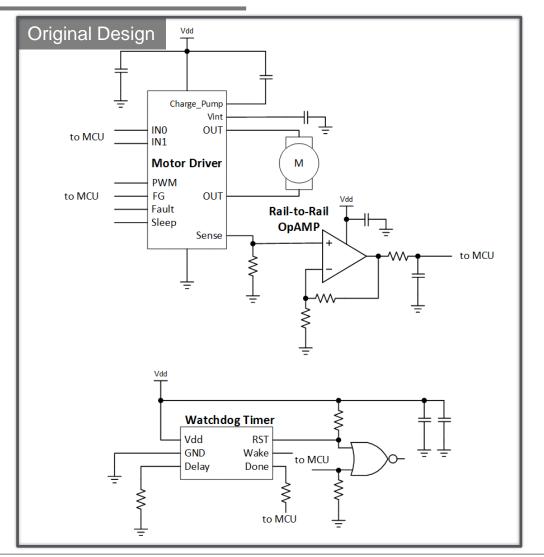**HVPAK (up to 26.4 V and 3 A per OUT)** takes its roots from the **GreenPAK family** featuring its configurability and free GUI-based **software** to design the circuit without any programming language needed. It combines mixed-signal logic and **high-voltage H-/Half-bridge** functionality in **a tiny 2 mm x 3 mm QFN package**.
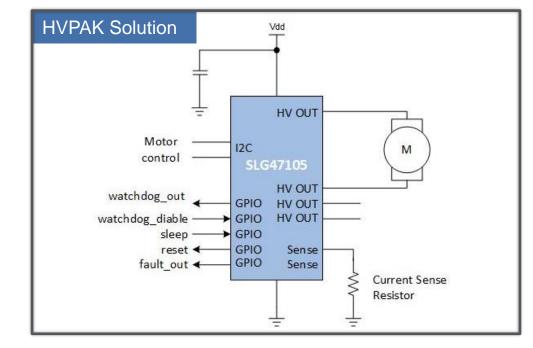
The HVPAK incorporates advanced PWM macrocells, enabling the simultaneous control of multiple motors with varying PWM frequencies and duty cycles. Its compact size and low idle current consumption make it highly versatile, expanding its range of potential applications. This tiny and thermally-efficient IC provides an ideal platform for designing mixed-signal functions alongside its high-voltage capabilities.

Datasheet SLG47105	
Datasheet SLG47115	
Application Notes using HVPAK	
Download Go Configure™ Software Hub	

- **Ability to meet exact customer requirements**
- Highly configurable
- **Works as a standalone device**
- Custom protections
- **Current limit –**

  motor/shaft stuck protection

Winning Combo: Smart Lock with Super-Low Power Wi-Fi and Bluetooth Low Energy

Winning Combo: Programmable Radiator Mounted Heating Thermostat

Winning Combo: Smart Robot Vacuum Cleaner

Winning Combo: Drink Machine with Water Level Detection

Winning Combo: Smart Water Shutdown Valve

Winning Combo: Automatic Wine Cork Opener

RENESAS

HVPAK APPROACH: SMART LOCK DESIGN

Original Design

HVPAK Solution

Design reduced by:
- 4 ICs
- 14 passive components
- reduced current consumption by four times (idle mode)

Value	Approx. savings with HVPAK
Layout Size	17.8 mm^2
Cost Savings	$ 1.33

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