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PAC™ Applications
Overview
Wireless Power
High Voltage Motor with FOC
BLDC Motor
Uniterruptible Power Supply (UPS)
Solar Micro-Inverter
Induction Heating
LED Lighting & Control
PMU Applications
Analog Power Applications
LED Lighting

PAC™ Motor Solution Brochure
Wireless Power Solutions Brochure
PMIC for Atmel ePMUs Brochure
Analog Power Brochure – 2Q 2014
PAC™ Brochure - Coming Soon

Design Resources

Evaluation Kit
- User Guide
- Schematics
- Layout Drawings
- Bill of Materials (BOM)

ICs Supporting This Solution
- PAC5220WP

Buy Now

Solutions / PAC™ Applications / Wireless Power

Wireless Power

Qi Certified

Active-Semi's WPC Qi-Certified (version 1.1.2) single-IC based wireless power transmitter solution provides customers with the highest efficiency and lowest stand-by power design available today. The solution works for charging 5W USB powered devices such as, smart phones, mobile devices and portable electronics. This solution also offers the smallest BOM count to reduce the design footprint.

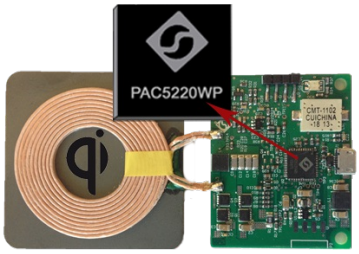
Active-Semi WPC Solution kit **EVK-PAC5220WP-Qi-xxA11-V1** features **PAC5220WP** Power Application Controller™ IC which handles all functions of wireless charging including receiver selection & identification, communication & control, power transfer, guided placement through blinking LED, and audio feedback using a piezoelectric buzzer. It also monitors input and output power for load regulation, uses WPC version 1.1 Foreign Object Detection (FOD), and provides over-current and over-temperature protection.

The turnkey solution and reference design comes with preloaded firmware for power transfer, protection, guided positioning and other functions to perform right out-of-box, and allow customers to perform fast prototyping of their end-product. In addition, the preloaded firmware also allows customization of user features, enabling customers to differentiate their end-products.

Power Application Controller™ IC technology, which is at the heart of this solution, also offers excellent scalability to other WPC configurations, is capable of supporting much higher power levels beyond 5W, and is also suitable for implementing other standards such as PMA using the same platform.

EVK-PAC5220WP-Qi-xxA11-V1 and **PAC5220WP** IC from PAC™ IC Family are now in production. xx=HP for High Performance BOM solution, xx=LC for Low-Cost BOM solution.

For more details and samples, email sales@active-semi.com.



EVK-PAC5220WP-Qi-xxA11-V1
xx=HP for High-Performance BOM version, xx=LC for Low-Cost BOM version

Features

- Up to 75 percent transmitted efficiency
- Ultra-low standby power under 50mW
- Excellent EMI performance meeting FCC Class B
- Complete WPC-1.1.2 Firmware including Foreign Objection Detection (FOD), guided positioning with LEDs and Buzzer
- Lowest solution cost bill of material including optional Active-Semi FETs
- Built-in surge protection
- Support for wide-input DC (up to 54V) and universal AC input with on-chip SMPS controller
- Scalable MCU based solution to enable products with multi-coils, multi-modes, and medium / higher power levels up to 150W

Qi CERTIFICATION

Wireless Power Consortium

NTS Report on Qi-Certification

DOWNLOADS

Wireless Power Materials

Active-Semi WPC 5V Wireless Charger Solution Kit

Other Wireless Power Evaluation Kits

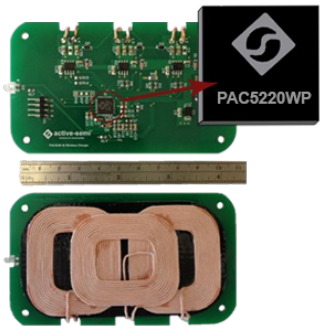
There are several different evaluation kits for Wireless Power Charging all using Active-Semi's PAC5220WP IC.

WPC A1/A10 WIRELESS CHARGER WITH OFFLINE FLYBACK

Features

- PAC5220WP Based Single-IC Solution
- AC Line Input. Integrated Flyback
- Regulator Generates 19V
- Half-H Bridge Coil Driver
- Ref Design Integrates Alarm Clock and LCD Display

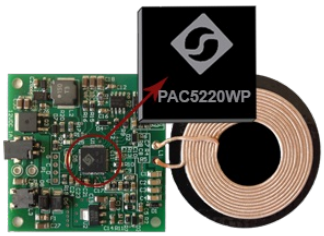
WPC A6 3-COIL WIRELESS CHARGER



Features

- PAC5220WP Based Single-IC Solution
- 12 VDC Input. No Additional Power Supply Components Needed
- 3 Half-H Bridge Coil Drivers
- Also Works With Single A6 Coil

WPC A11 WIDE-INPUT CHARGER



Features

- PAC5220WP Based Single-IC Solution
- 8V - 40V Wide Input, Integrated Buck Converter Generates 5V
- Full H-Bridge Coil Driver
- Tiny 2" x 2" PCB

Products Supporting Wireless Power Applications

PAC5220WP

Buy Samples & EVKs

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