active-semi®
Solutions for Sustainability

Industry Leading Power Application Controller™ and Analog Power Management IC Solutions

embedded world Exhibition&Conference
... it's a smarter world

Embedded World Demos

- **Wireless Power Charger** using PAC5220WP Power Application Controller™
- **BLDC Motor Platform** with PAC5220 for Sensored, Sensorless, FOC Control
- **High-voltage ACIM, PMSM Motor Platform** with PAC5250 for FOC Control
- **Embedded All-in-1 PMICs** ACT8865, ACT8945A for Atmel SAMA5, SAM9 eMPUs
- Power System-on-Chip solutions for Power Banks and Bluetooth Speakers
- And more

Embedded World Partners

Atmel ARM

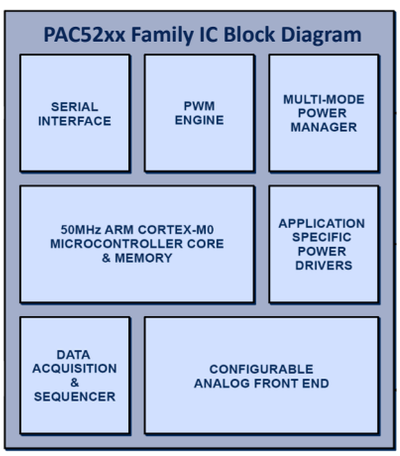
About Active-Semi

- Headquartered in Dallas, Texas, USA
- Founded in 2004
- 1Billion ICs shipped by May 2012
- Operations in the US, Europe, China, Taiwan, Hong Kong, Japan and S Korea
- www.active-semi.com/about/leadership

Active-Semi International, Inc.
One Allen Center
700 Central Expressway South, Ste. 330
Allen, TX 75013
USA

ACTIVE-SEMI POWER APPLICATION CONTROLLER (PAC)™ FAMILY

Active-Semi's industry leading ***Power Application Controller (PAC)™*** family of ICs offers unprecedented flexibility and scalability in the systems design of power control applications such as ***wireless power, motor drives, power inverters, LED lighting, high-voltage system controllers***. PAC™ enables single-IC based system solutions in the target power applications.



With an embedded ***ARM Cortex MCU*** integrated with highly sophisticated, yet configurable analog and power peripherals, PAC™ Family offers highly integrated ICs ideal for developing power applications with input voltage up to 72V DC and universal AC voltages, and output power ranging from ***few watts to a few kilo watts***. PAC™ family also features ***52V/72V/600V gate drivers*** for up to ***4 half-H bridges*** driving MOSFETs or IGBTs, ***Multimode Power Manager*** for AC-DC and DC-DC conversion, LDOs, ***Configurable AFE***, High-precision DACs, ADC, single-ended & differential PGAs, PWM Enginers, SPI, I2C, UART and other peripherals.

Visit us at Embedded World in Nuremberg, Hall 1-420

ACTIVE-SEMI ANALOG POWER PORTFOLIO

PMICs for Atmel eMPUs

ACT2801/2 for Power Banks

Active-Semi also offers a wide range of specialized and catalog analog power ICs including,

* Power management ICs (PMICs/PMUs) for Atmel SAMA5 and SAM9 eMPUs
* PMICs for popular single and multicore processors
* Single-IC power management solutions for Power Bank products, Bluetooth speakers
* High-power and low-power DC-DC power converter products
* ActivePSR™ and ActiveQR™ line of primary side and secondary side regulator ICs

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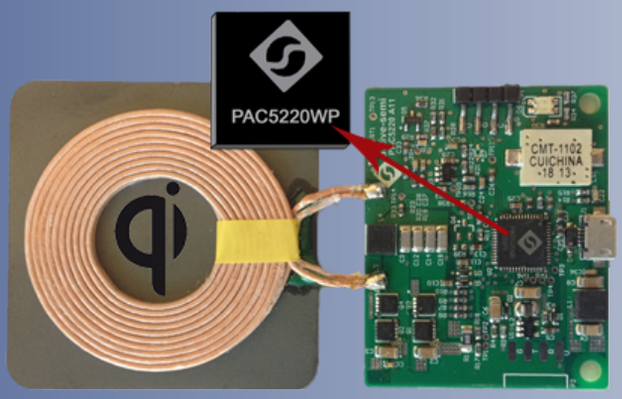
www.active-semi.com

INELTEK
www.ineltek.com

Embedded World 2014 Live Demos @ Hall 1-420
with Active-Semi's Power Application Controller™



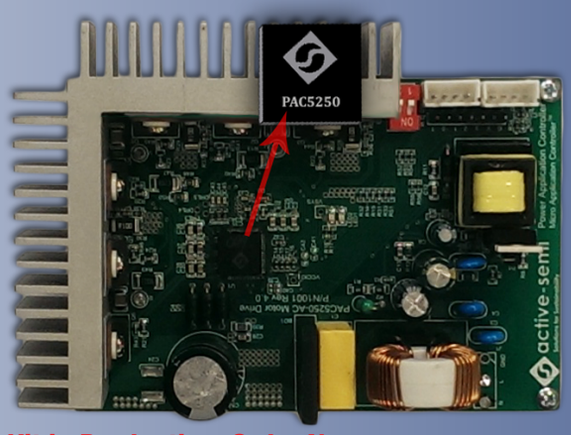
Qi-Certified Wireless Power Solutions

* Latest Qi version 1.1.2 Certification
* Industry's highest efficiency of 75%
* Industry's lowest standby power
* Industry's lowest BOM cost solution
* Turnkey solution with preloaded firmware
* Customizable features for LEDs, Buzzer
* PAC5220WP IC based scalable platform beyond WPC for multi-coil, multi-mode, medium & high power wireless chargers up to 150W

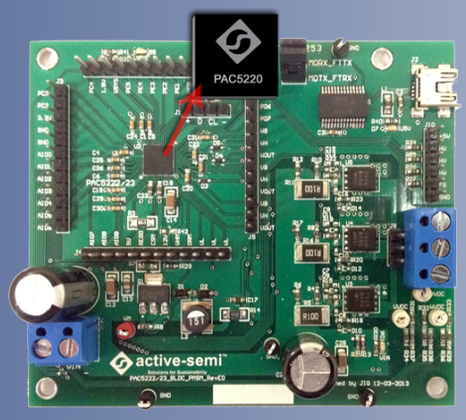
PAC5220WP IC and Wireless Power Solution Kit in Production. Order Now

High-Voltage ACIM/PMSM FOC Motor Solutions

* PAC5250 Single-IC based FOC Motor solution
* Integrated ARM Cortex MCU, SDK for development
* Integrated 600V gate drivers for 3 Half H-bridges
* Integrated Multi-mode Power Manager for AC-DC, DC-DC conversion, 4 LDOs for system power
* Integrated Configurable AFE with single & diff PGAs, comparators, precision DACs, ADC
* FOC Firmware, Speed estimator, Software GUI for motor parameter tuning and development



PAC5250 IC and HV FOC Motor Solution Kit in Production. Order Now



BLDC Motor Control Solutions

* PAC5220 Single-IC based BLDC Motor solution
* Integrated ARM Cortex MCU, SDK for development
* Integrated 52V gate drivers for 3 Half H-bridges
* Integrated Multi-mode Power Manager for AC-DC, DC-DC conversion, 4 LDOs for system power
* Integrated Configurable AFE with single & diff PGAs, comparators, precision DACs, ADC
* Firmware for Sensored, Back EMF Sensorless and FOC
* Software GUI for motor tuning and control

PAC5220 IC and BLDC Motor Solution Kit in Production. Order Now

For more Active-Semi IC Products, Evaluation Kits, Application Solutions visit www.active-semi.com

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