

QORVO

Power Up Your Design

Qorvo® Multi-time Programmable
PMIC Solutions



Connecting, protecting and powering the world.

Qorvo's PMICs are efficient and highly integrated solutions that perform power distribution functions in complex systems with multiple power rails. Multiple time programmable (MTP) non-volatile memory (NVM) enables configurability to adjust functions and parameters that can be preprogrammed and optimized on-the-fly using an I2C interface.

Multi-time programmable PMICs, same PMIC different configurations

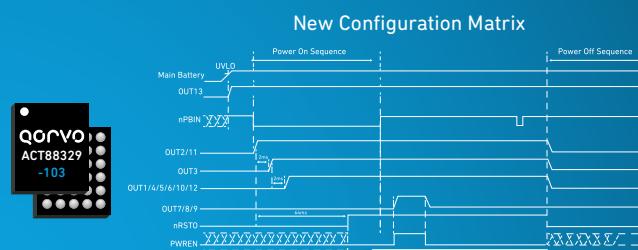
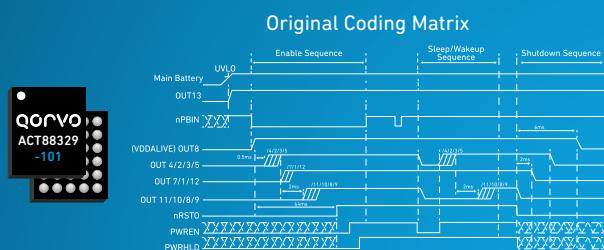


Why Qorvo Power ICs?

- ActiveCiPS™ – Qorvo's proprietary multi-time programmable technology (Configurable Intelligent Power Solutions)
- ActiveCiPS reduces your design risk with on-board design changes on the spot, in your lab
- A single device delivers multiple configurations for different designs
- ActiveCiPS accelerates your time to market
- Fully integrated cost-effective solution

Tools

- ActiveCiPS programming dongle
- Easy to use GUI
- Allows you to reconfigure ICs on your PCB



OPTIMIZED FOR EVERY PROJECT

QORVO

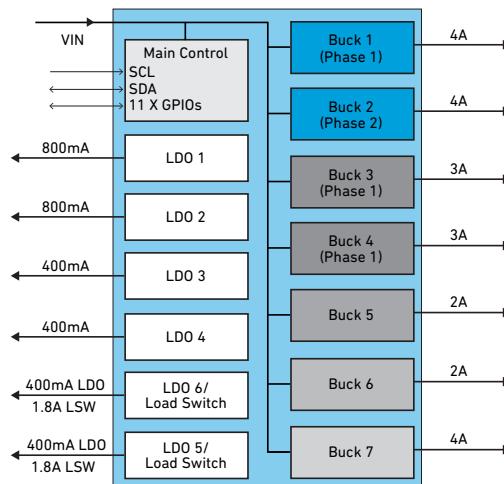
ACT88760

The ACT88760 is a 5V integrated PMIC. It delivers advanced levels of programmability, power efficiency and capability in a simple, compact design.

Key Features

- Wide 2.7-5.5V input voltage range
- 13 integrated rails, a sequencer and 10 general purpose IOs (GPIOs) provide industry-leading flexibility
- Dual phase outputs for high current
- High PSRR LDOs
- High configurability via I2C interface
- Debug designs and change settings in real-time without changing external components
- 3.85x3.85 mm 81 ball WLCSP package

End markets: AI processors, mobile, solid-state drives (SSDs), virtual reality headsets, security and action cameras, image processing, laptops, AR/VR headsets.



FIND OUT MORE

www.qorvo.com/go/ACT88760



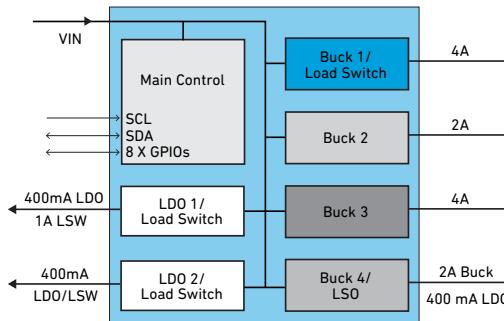
ACT88422

The ACT88422 is a 5V integrated PMIC. It includes constant-on-time (COT) control topology for improved transient response, and three-state GPIOs for enhanced configurability. This highly compact device is ideal for space-constrained designs.

Key Features

- Wide 2.7-5.5V input voltage range
- Six integrated rails, sequencer
- 8 configurable GPIOs
- Optimized quiescent current and light load efficiency
- Multiple sleep modes
- 2.7x2.7 mm 36 ball WLCSP package

End markets: IoT, SSD, HH terminals, controller boards, communication cards, point of sale terminals and networked cameras.



FIND OUT MORE

www.qorvo.com/go/ACT88422



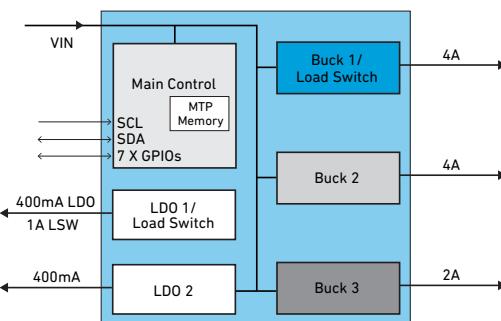
ACT88329

The ACT88329 is a 5V integrated PMIC delivering high power, high density and support for advanced low-power modes.

Key Features

- Wide 2.7-5.5V input voltage range
- 5 integrated rails, a sequencer and 7 general purpose IOs
- GPIOs provide industry-leading flexibility
- I2C serial interface for monitoring and control
- Small WLCSP package 2.18x2.58 mm
- Multiple sleep modes
- ACT88321 package alternative to support TH vias for PTH boards

End Markets: AI processors, mobile, solid-state drives (SSDs), virtual reality headsets, security and action cameras, image processing, laptops, AR/VR headsets, servers.



FIND OUT MORE

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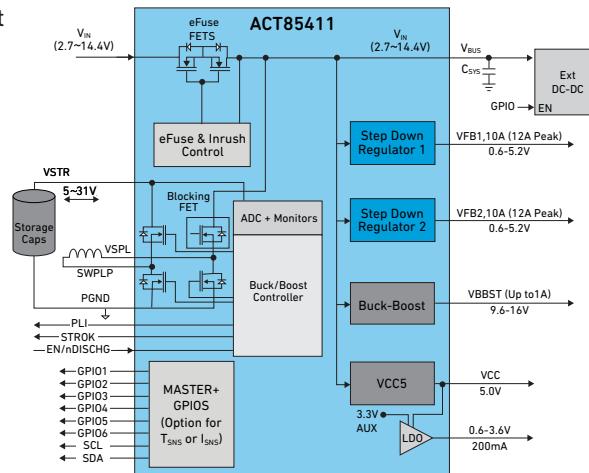
ACT85411

The ACT85411 is a versatile power management IC featuring two high-efficiency buck regulators capable of delivering up to 12A peak and 10A continuous current, with programmable output voltages between 0.6V and 5.26V, and a 12V buck-boost converter with an output range of 9.6V to 15.95V. It includes power loss protection circuitry for backup power during input failures, a specialized LDO with selectable input, and a mini-buck regulator for generating a 5.0V output.

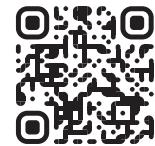
Key Features

- Monolithic design for both PLP and PMIC in one chip
- All eFuse/Bucks/Boosts FETs are integrated
- 2.7~14.4V operating input with 20V max blocking
- Programmable 10A input current limit for eFuse
- Programmable input UV/OV/OC/SC & inrush control
- 5.5~31V boost cap charger
- 2 x 10A max, 12A peak synchronous high efficiency bucks
- 1 x 1A Buck-Boost, 9.6~16V output voltage
- 1 x (200mA or 400mA) mini-buck regulator
- 1 x 200mA LDO
- 6 programmable GPIOs
- Storage capacitance check & read

End markets: Solid state drives, backup power and hot plug/hot swap devices.



FIND OUT MORE
www.qorvo.com/go/ACT85411



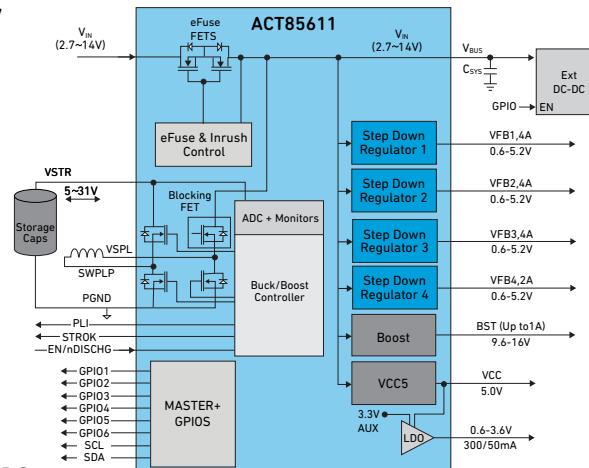
ACT85611

The ACT85611 device is a highly integrated, high configurable, multiple-output, power management unit (PMU) with built-in power loss protection (PLP) IC. Four high-efficiency bucks supply 3 x 4A and 1 x 2A current with the output as low as 0.6V. In addition, a boost regulator with 12V output and a fixed-output buck provide power to the IC and to the gate drivers for maximum efficiency.

Key Features

- Monolithic design for both PLP and PMIC in one chip
- All eFuse/bucks/boosts FETs are integrated
- 2.7~14V operating input with 20V max blocking
- Programmable input UV/OV/OC/SC & inrush control
- 5~31V boost cap charger
- 31V/8A synchronous high-efficiency buck
- 3 x 4A (6A peak) + 1 x 2A (3A peak) bucks
- 1 x 12V/1A boost + 1 x 100mA buck VCC + 1 x 300/50mA LDO
- 7 programmable GPIOs
- 8 channels 12-bit ADC
- Storage capacitance check and read

End markets: Solid state drives, backup power and hot plug/hot swap devices.



FIND OUT MORE
www.qorvo.com/go/ACT85611



FOR MORE INFORMATION

www.qorvo.com/go/pmic