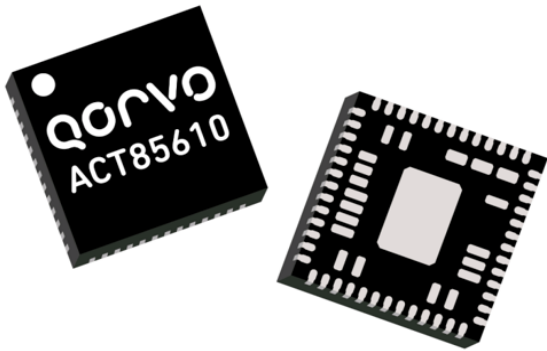


ACT85610 - High Voltage PLP + PMIC for Enterprise Storage

Product Features

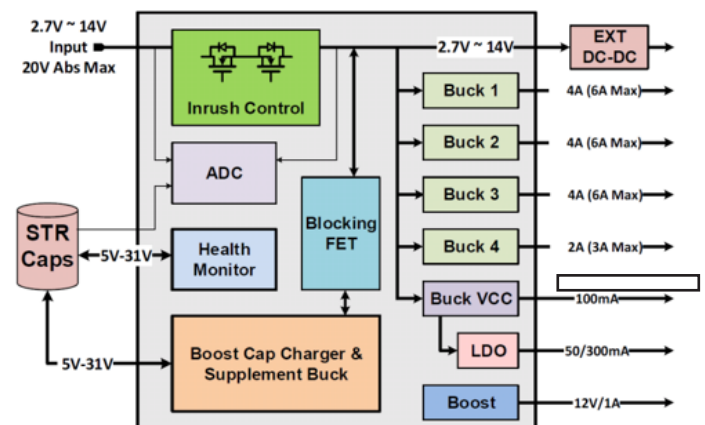


- ◆ 2.7V ~ 14V operating input with 20V max blocking
- ◆ Programmable input UV/OV/OC/SC & inrush control
- ◆ 5V ~ 31V boost cap charger
- ◆ 31V / 8A synchronous high efficiency buck
- ◆ 3 x 4A (6A peak) + 1 x 2A (3A peak) bucks
- ◆ 1 x 12V/1A boost + 1 x 100mA buck VCC + 1 x 300/50mA LDO
- ◆ 7 programmable GPIOs
- ◆ 8 channels 12-bit ADC
- ◆ Storage capacitance check and read

The ACT85610 device is a highly integrated, high configurable multiple output power management unit (PMU) with built-in power loss protection (PLP) IC. There are four high efficiency Bucks that can supply 3 x 4A and 1 x 2A current with the output as low as 0.6V. In addition, there is a Boost regulator with 12V output and a fixed output Buck to provide the power for IC itself and to supply power to the gate drivers in regulators for maximum efficiency

Benefits

- ◆ Monolithic design for both PLP and PMIC
- ◆ All eFuse/bucks/boosts FETs are integrated
- ◆ Minimized external components count
- ◆ COT based PMIC control for high efficiency & transient
- ◆ Comprehensive discharge mechanism of all rails
- ◆ Ultra-fast transition to supplement at power failure



Applications

- ◆ Solid state drives
- ◆ Networking, telecom and base stations
- ◆ Hot plug devices