

Power Management IC for IoT

Description

SM5007C/SM5007H/SM5007M is a complete power management IC that features a linear charger, very low I_Q Buck and LDO regulators, power switches and fuel gauge with hybrid mode.

The very low I_Q regulators with smart power management scheme maximize the battery life time and enhance overall system performance.

The SM5007C/SM5007H/SM5007M is available in a 51-bump, 3.65mm x 3.0mm WLCSP package.

Applications

- IoT (Internet of Things)
- Wearable devices

Features

- ✓ A 600mA Linear Charger
- ✓ Hybrid-Mode (Voltage + Current) Fuel Gauge
- ✓ Four High-Efficiency Buck Converters
 - BUCK1-2: 1A Max Load
 - BUCK3-4: 1.5A Max Load
 - I_Q in PFM=2 μ A
- ✓ 9 LDO Regulators
 - I_Q in Low-Power Mode (LPM) =1.5 μ A
- ✓ 5 Power Switches with soft-start
- ✓ Programmable Registers over I²C Interface
- ✓ Power-ON/OFF Sequence & Default Programmable by OTP (One-Time Program) registers
- ✓ Serial I²C Interface up to 400kHz in Full-Speed

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SM5007C&SM5007H&SM5007M

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