

## Features

- LDO Low Noise Low-Dropout regulator
- Low IQ: 75  $\mu$ A
- Available in multiple output versions: fixed and 4-8 bit programmable
- Maximum output current: 150 mA
- Ultra-high PSRR: 80 dB @ 20kHz; 70 dB @ 100kHz; 50 dB @ 1MHz
- Low Noise: 20  $\mu$ V typical (20Hz to 20kHz)
- Large input range, from 1.8 V to 5.5 V
- Soft start and overcurrent protection
- Core area : 0.11 mm<sup>2</sup>

## Applications

## Applications Diagram

## General Description

LDO: The SGC73150 is the 150 mA regulator of a family of low-dropout (LDO), low-power linear regulator IP solutions for integration on SoC. Offers very high power supply rejection ratio (PSRR). The family uses advanced control techniques to achieve soft start-up, very low noise, excellent transient response, and excellent PSRR performance. The SGC73150 is stable with a 1.0  $\mu$ F ceramic output capacitor. It is specified from  $T_J = -40\text{ }^\circ\text{C}$  to  $+125\text{ }^\circ\text{C}$  and is designed to achieve 3 % overall accuracy (over Load/Line/Temp).

## Quick Reference

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