

COMMITMENT

SGC21412\_01\_GF\_22FDSOI

PRODUCTION
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**POWER CONTROLLER** 

## **Features**

- Advanced Power Controller w/ POR, UVLO and OVP
- Large input voltage range, from 1.80V to 5.50V
- High Power and Low Power operation modes
- Reference voltage up to 10 decoupled outputs
- Up to 10 high power bias current outputs
- Up to 13 low power bias current outputs
- · Clock generator
- 4 Reset cause outputs

## General **Description**

SGC21412\_01\_GF\_22FDSOI is an Advanced Power Controller (APC) for integration in SoC. Including all the necessary auxiliary supply, monitoring, protection and POR functions, it is the ideal solution for any *IoT* Power Management Unit (PMU). Offering high power supply rejection (PSRR), s tart-up sequencing and independent voltage reference decoupling, without the need for extra package pins, it is stable without any external decoupling capacitor. Additionally, all generated references include digital trimming bits for increased performance or yield improvement. Designed to achieve 1% overall voltage reference accuracy (over Load / Line / Temp / Process ), it is specified from TJ = -40°C to +125 °C.

## **Applications**

- SoC
- IoT

## **Quick Reference**

SYMBOL	DESCRIPTION	MIN	TYP	MAX	UNIT
V <sub>IN</sub>	Input Sup.	1.80	-	5.50	V
$V_{DVDD}$	Digital Sup.	0.50	-	0.90	V
F <sub>CLCK</sub>	Generated Frequency	3.60	4.0	4.40	MHz