

COMMITMENT TO CUSTOMER SUCCESS SINCE 2008

POWER CONTROLLER

Features

- Advanced Power Controller w/ POR
- · Clock generator
- Power-On-Reset
- · Reference voltage with 9 decoupled outputs
- Bias current with 9 outputs
- Power-up sequencing controller
- Multiple Power Good monitors
- External voltage detector w/ UVLO
- Level shifter disable signal generation
- Large input voltage range, from 1.8V to 4.6V

General Description

SGC21412_IP007700_GF_22FDX 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), start-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. Specified from TJ = -40°C to +125°C, it was designed to
achieve 1% overall voltage reference accuracy (over Load / Line / Temp /

Applications

• SoC

Quick Reference

Process).

SYMBOL	DESCRIPTION	MIN	TYP	MAX	UNIT
V _{IN}	Input Voltage	1.80	-	4.60	V
V _{DVDD}	Digital Voltage	0.70	-	1.20	V
F _{CLK}	Generated Frequency	-	4.0	-	MHz