

NCP6925

Power Management IC (PMIC), 7 Channels, with 2 DC-DC Converters and 5 LDOs

Product Overview

For complete documentation, see the data sheet.

The NCP6925 is part of the ON Semiconductor mini-power management IC family. It is optimized to supply battery powered portable application subsystems such as camera modules, microprocessors or any peripherals. This device integrates two high efficiency 1000 mA step-down DC to DC converter with DVS (Dynamic Voltage Scaling) and five low dropout (LDO) voltage regulators in WLCSP-36 2.36 x 2.36 mm package.

Features

- 2.36 x 2.36 mm WLCSP 0.4 mm pitch
- Ultra low quiescent current (140 μ A typ)
- Id detection capability
- Two DC-DC converters, efficiency 95%, programmable output voltage from 0.6 V to 3.3 V by 12.5 mV steps, 1000 mA output current capability
- 2 general purpose I/O pins
- Four low noise, low dropout regulators, programmable output voltage from 0.8 V to 3.5 V by 25 mV steps, 300 mA output current capability, 50 μ Vrms typical low output noise
- Flexible power up and down sequences programmable by I²C
- Triple inputs 10 bits ADC
- 2 DC-DC converters, 95 % efficiency, 1 A output current capability, programmable output voltage from 0.6 V to 3.3 V by 12.5 mV steps
- 5 low dropout regulators, 300 mA output current capability, programmable output voltage from 0.8 V to 3.5 V by 25 mV steps, 50 μ Vrms typical low output noise

For more features, see the data sheet




Applications

- Battery powered applications power management
- Cellular Phones
- Tablets
- Power supply for processor with low core voltage
- Digital Cameras

End Products

- Smartphones
- Tablets
- Wearable devices
- MP3 players

Part Electrical Specifications

Product	Status	Compliance	Topology	Control Mode	V _{CC} Min (V)	V _{CC} Max (V)	V _O Typ (V)	I _O Typ (A)	Efficiency (%)	f _{sw} Typ (kHz)	Package Type	Case Outline	MSL Typ	MSL Temp (°C)	Container Type	Container Qty.
NCP6925AFCT1G	Obsolete		Step-Down	Voltage Mode	2.5	5.5	1.2	1	95	3000	WLCSP-36	567 GW. PDF	1	260	REEL	3000
NCP6925AFCT2G	Obsolete		Step-Down	Voltage Mode	2.5	5.5	1.2	1	95	3000	WLCSP-36	567 GW. PDF	1	260	REEL	3000
NCP6925BFCC T2G	Obsolete		Step-Down	Voltage Mode	2.5	5.5	1.2	1	95	3000	WLCSP-36	567 GW. PDF	1	260	REEL	3000