



Product Overview

NCP6914: 5 Channels Power Management IC (PMIC) with 1 DC-DC Converter and 4 LDOs

For complete documentation, see the [data sheet](#)

Product Description

The NCP6914 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 one high efficiency 800 mA step-down DC to DC converter with DVS (Dynamic Voltage Scaling) and four low dropout (LDO) voltage regulators in WLCSP-20 1.77 x 2.06mm package.

Features

- Very small package 2.05 x 1.76 mm
- Ultra low quiescent current (72 μ A typ)
- I^2C accessible prior enabling device allowing to change settings before powering up the system
- One DC-DC converter, efficiency 95%, programmable output voltage from 0.6 V to 3.3 V by 12.5 mV steps, 800 mA output current capability
- Four low noise, low dropout regulators, programmable output voltage from 1.0 V to 3.3 V by 50 mV steps, 300 mA output current capability, 50 μ Vrms typical low output noise

Benefits

- Reduce PCB space
- Save battery life
- Offer design flexibility

Applications

- Battery powered applications power management
- Power supply for processor with low core voltage
- Camera modules
- Peripheral sub-systems
- USB powered devices

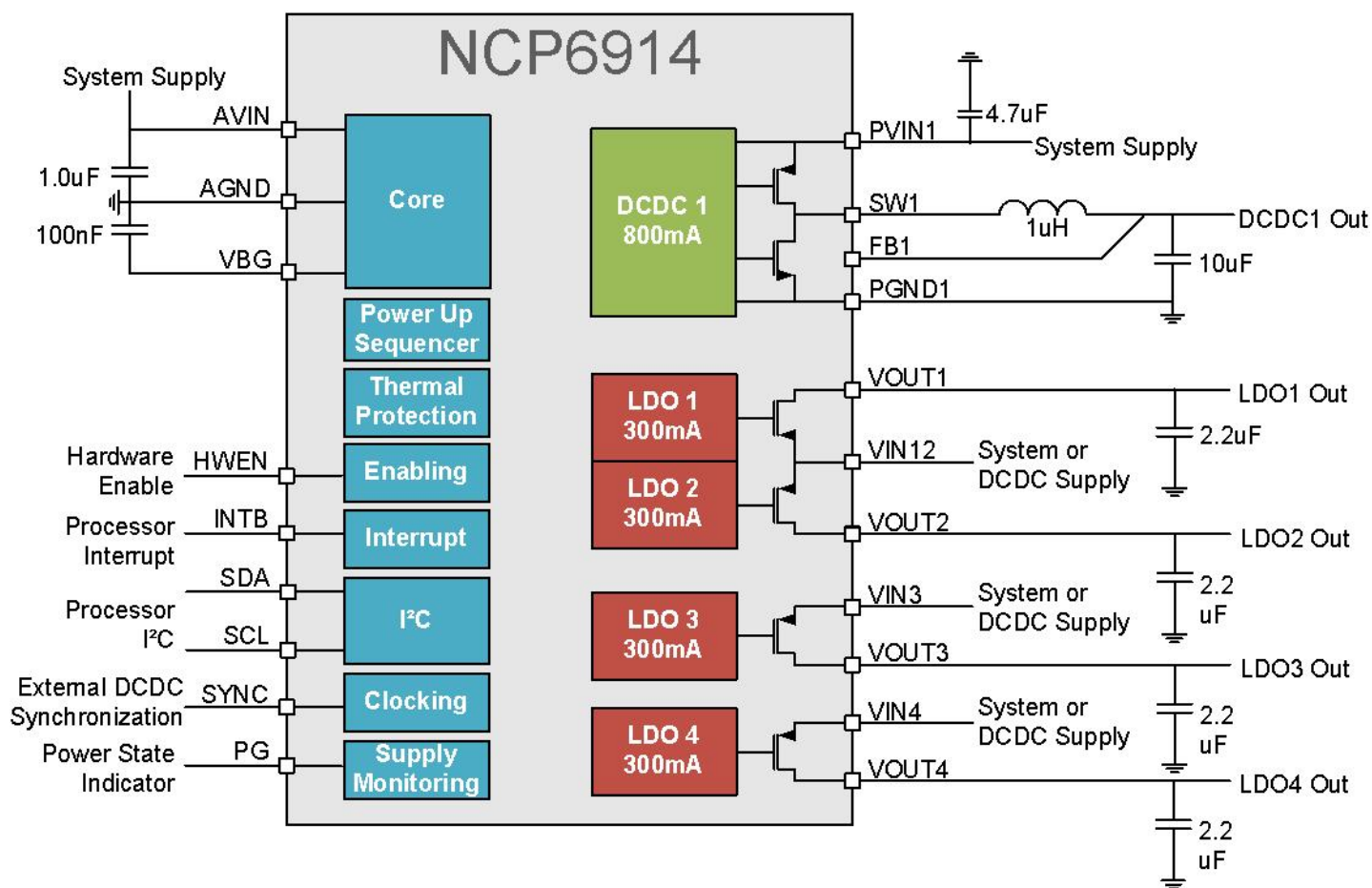
End Products

- Smartphones
- Tablets
- Wearable devices
- MP3 players

Part Electrical Specifications

Product	Compliance	Status	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
NCP6914AFCAT1G	Pb-free Halide free	Active	Step-Down	Voltage Mode	2.3	5.5	1.2	0.8	95	3000	WLCSP-20
NCP6914AFCBT1G	Pb-free Halide free	Active	Step-Down	Voltage Mode	2.3	5.5	1.2	0.8	95	3000	WLCSP-20
NCP6914AFCDT1G	Pb-free Halide free	Active	Step-Down	Voltage Mode	2.3	5.5	1.2	0.8	95	3000	WLCSP-20

Application Diagram



For more information please contact your local sales support at www.onsemi.com

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