



## Product Overview

### NCP6924: 6 Channel PMIC with 2 DC-DC Converters and 4 LDOs

For complete documentation, see the data sheet

#### Product Description

The NCP6924 is part of the ON Semiconductor mini-power management IC family. It is optimized to supply battery powered portable application subsystems such as camera function, microprocessors, etc. This device integrates two high efficiency 800 mA step-down DC to DC converters with DVS (Dynamic Voltage Scaling) and four low dropout (LDO) voltage regulators in WLCSP-30 2.46 x 2.06mm package.

#### Features

- Very small package 2.46 x 2.06 mm
- Ultra low quiescent current (105 uA typ)
- I<sup>2</sup>C accessible prior enabling device allowing to change settings before powering up the system
- Two DC-DC converters, 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, 2 x 150 mA and 2 x 300mA output current capability, 50 uVrms typical low output noise
- Low voltage DC rails power management

#### Benefits

- Reduce PCB space
- Save battery life
- High level design flexibility especially critical during design phase

#### Applications

- Battery powered applications power management
- Power supply for processor with low core voltage
- Camera module

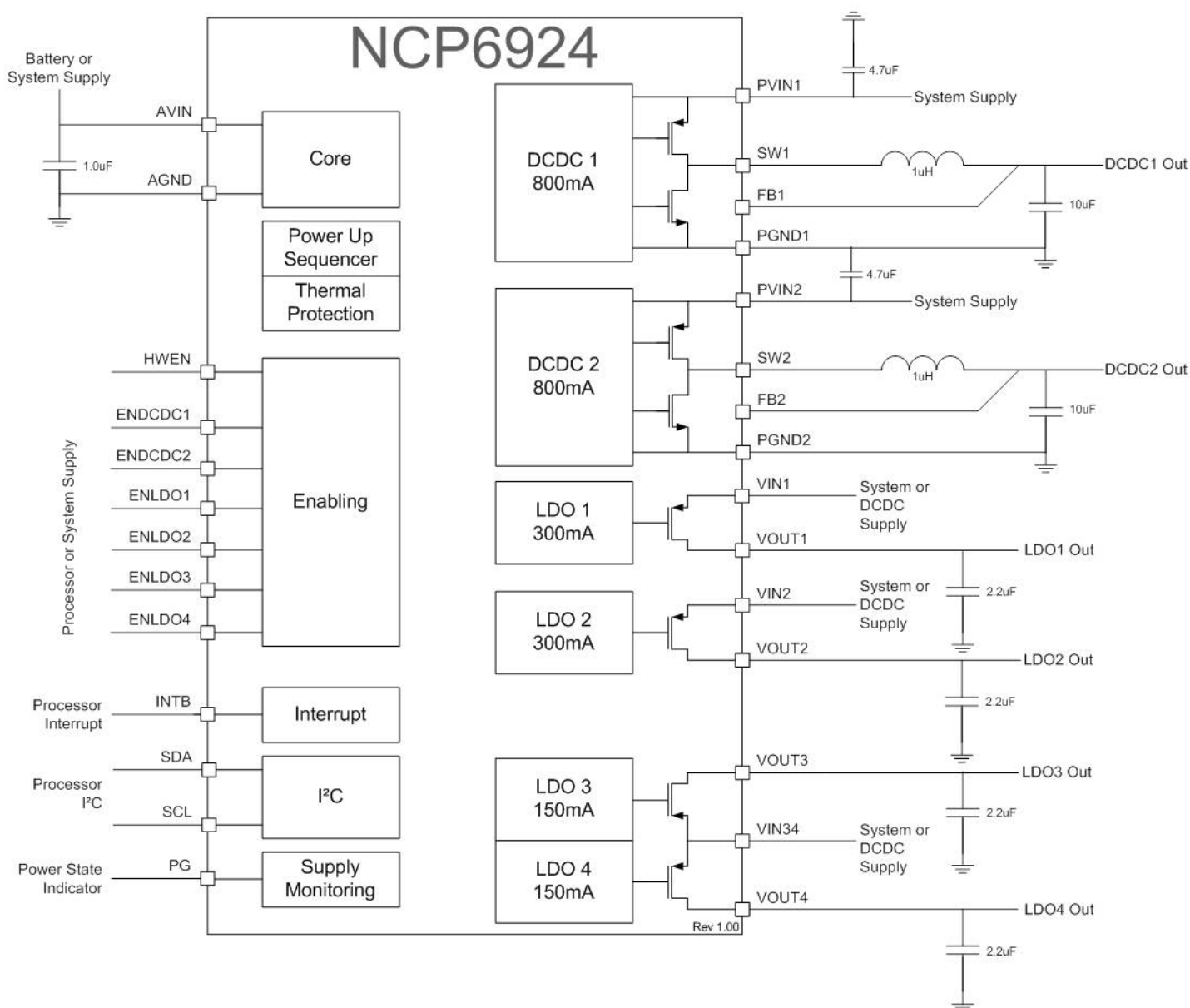
#### End Products

- Cellular phones, smart phones, tablets and PDAs
- MP3 players and portable audio systems

#### Part Electrical Specifications

Product	Compliance	Status	Topology	Control Mode	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	V <sub>O</sub> Typ (V)	I <sub>O</sub> Typ (A)	Efficiency (%)	f <sub>SW</sub> Typ (kHz)	Package Type
NCP6924AFCET1G	Pb-free Halide free	Active	Step-Down	Voltage Mode	2.3	5.5	1.2	0.8	95	300000	WLCSP-30
NCP6924AFCHT1G	Pb-free Halide free	Active	Step-Down	Voltage Mode	2.3	5.5	1.2	0.8	95	300000	WLCSP-30

## Application Diagram



For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

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