



## Product Overview

### NCV896530: 2.1 MHz Low Voltage Dual Output Buck Converter

For complete documentation, see the data sheet

#### Product Description

The NCV896530 dual step-down dc-dc converter is a monolithic integrated circuit dedicated to automotive driver information systems from a downstream voltage rail. Both channels are externally adjustable from 0.9 V to 3.3 V and can source totally up to 1600 mA. Converters are running at 2.1 MHz switching frequency above the sensitive AM band and operate 180° out of phase to reduce large amounts of current demand on the rail. Synchronous rectification offers improved system efficiency. The NCV896530 provides additional features expected in automotive power systems such as integrated soft-start, cycle-by-cycle current limit and thermal shutdown protection. The device can also be synchronized to an external clock signal in the range of 2.1 MHz. The NCV896530 is available in a space saving, 3 x 3 mm 10-pin DFN package.

#### Features

- Synchronous Rectification
- 2.1 MHz Switching Frequency
- Thermal Limit and Short Circuit Protection
- 2 Outputs are 180° Out-of-Phase
- Internal MOSFETs

#### Benefits

- Higher Efficiency
- Smaller inductor, no AM band emissions
- Fault Protection
- Lower Input Ripple
- Decreased cost and solution size

#### Applications

- Audio
- Infotainment
- Instrumentation

#### 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
NCV896530MWTXG	AEC Qualified PPAP Capable Pb-free	Active	Step-Down	Current Mode	2.7	5.5	Adjustable	1.6		2200	DFN-10

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

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