

## Product Overview

### NCP81147: Low Voltage Synchronous Buck Controller

For complete documentation, see the data sheet.

The NCP81147 is a single phase solution with differential phase current sensing, synchronization input, remote ground power saving operation, and gate drivers to provide accurately regulated power. The adaptive non overlap gate drive and power saving operation circuit provide a low switching loss and high efficiency solution for server, notebook, and desktop systems. A high performance operational error amplifier is provided to simplify compensation of the system. The NCP81147 features also include softstart sequence, accurate overvoltage and over current protection, UVLO for power supply rails, and thermal shutdown.

#### Features

- Internal High Performance Operational Amplifier
- Integrated MOSFET drivers
- Thermal shutdown protection
- Overvoltage and over current protection
- Power Saving Mode
- Supports 5.0 V to 19 V input
- 5.0 V to 12 v operation
- Chip enable feature through the OSC pin
- Guaranteed startup into pre-charged loads
- Internal softstart / stop

For more features, see the data sheet

#### Benefits

- Simplifies compensation of the system
- Saves space and simplifies design
- Ensures robust design
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- Maximizes efficiency during light load operation

#### Applications

- Desktop and Server Systems

#### Part Electrical Specifications

Product	Compliance	Status	Topology	Phases	Control Mode	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	f <sub>sw</sub> Typ (kHz)	Package Type
NCP81147MNTXG	Pb-free	Active	Step-Down	1		4.5	13.2		QFN-16

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