# NCP3231A

# High Current Synchronous Buck Converter

## Product Overview

For complete documentation, see the data sheet.

The NCP3231A is a high current, high efficiency voltage-mode synchronous buck converter which operates from 4.5 V to 18 V input and generates output voltages down to 0.6 V at up to 25 A.

### Features

- Wide input voltage range from 4.5V to 18V
- 500KHz switching frequency
- Lossless low-side FET current sensing
- 0.6V internal reference voltage
- External programmable soft-start
- Output over-voltage and under-voltage protection
- System over-temperature protection using a thermistor or sensor through OTS pin
- Hiccup mode operation for all faults
- Pre-bias start-up
- Adjustable output voltage

  For more features, see the data sheet

### Benefits

- Supports wide range of applications
- Requires small inductor and low number of output capacitors
- Good thermal performance

### Applications

- 25A voltage regulators in a 6x6 QFN pacakge
- ASIC, FPGA, DSP and CPU Core and I/O Supplies

### End Products

- Cellular Base Stations
- Telecom and Network Equipment
- Server and Storage System