NCP3237

8 A Integrated Synchronous Buck Regulator

Product Overview

For complete documentation, see the data sheet.

The NCP3237 is a singlephase synchronous buck converter that integrates power MOSFETs to provide a highefficiency and compactfootprint power management solution. This device is able to deliver up to 8 A output current over a wide output voltage range from 0.6 V to 12 V (up to 80% of VIN). The NCP3237 offers a fixed frequency regulator ideally suited for noise sensitive systems.

Features

- Forced CCM
- VIN = 4.5 V ~ 16 V
- VOUT = 0.6 V ~ 0.80*VIN and up to 12 V
- Integrated Power MOSFETs
- Up to 8 A Output Current
- Integrated 5 V LDO
- Programmable Switching Frequency from 300 kHz to 1.2 MHz
- Both Highside and Lowside OCP Operation
- Hiccup OverCurrent Protection
- Hiccup OverVoltage and UnderVoltage Protection

  For more features, see the data sheet

Applications

- Base Station Radio Units
- Point of Load
- Telecom and Networking
- Server and Storage System

End Products

- Base Station Radio Units
- Active Antenna System
- Remote Radio Units

Part Electrical Specifications

Product	Status	Compilance	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	Case Outline	MSL Type	MSL Temp (°C)	Container Type	Container Qty.
NCP3237MNTXG	Active	H Pb	Step-Down	Voltage Mode	4.5	16	0.6	8	95%	1200	QFN-18	485FR.PDF	1	260	REEL	3000