

NCP81270

Single-Phase Voltage Regulator for Computing Applications

Product Overview

For complete documentation, see the data sheet.

The NCP81270x is a highperformance, lowbias current, singlephase regulator with integrated power MOSFET driver. Operating in high switching frequency up to 600 kHz allows employing small size inductor and capacitors. The controller makes use of onsemi’s patented high performance RPM operation. RPM control maximizes transient response while allowing for smooth transitions between discontinuousfrequencyscaling operation and continuousmode fullpower operation. The NCP81270x has an ultralow offset current monitor amplifier with programmable offset compensation for highaccuracy current monitoring.

Features

- High Performance RPM Control System
- Differential Remote Output Voltage Sensing
- 4.5v to 21V Vin

Benefits

- Fast Transient Response
- Accurate voltage at point of load
- Covers desktop and notebook applications

Applications

- Computing - Desktop , Notebook , AIO

End Products

- Computing - Desktop , Notebook , AIO products

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Topology	Phases	Control Mode	V _{CC} Min (V)	V _{CC} Max (V)	f _{sw} Typ (kHz)	Package Type
NCP81270CMN TXG	0.36	<div><div>Pb</div><div>H</div></div>	Active	Linear	1	Voltage Mode				QFN-20
NCP81270DMN TXG	0.36	<div><div>Pb</div><div>H</div></div>	NEW	Linear	1	Voltage Mode				QFN-20
NCP81270MNT XG	0.36	<div><div>Pb</div><div>H</div></div>	Active	Linear	1	Voltage Mode				QFN-20