



NCP5217AGEVB: Synchronous Step-Down Controller Evaluation Board

The NCP5217A is a synchronous step-down controller for high performance battery-power systems. The NCP5217A includes a high efficiency PWM controller. A pin is provided to enable or disable force PWM mode of operation. An internal power good voltage monitor tracks the SMPS output. NCP5217A also features soft-start sequence, UVLO for VCC and switcher, overvoltage protection, overcurrent protection, undervoltage protection and thermal shutdown. The IC is packaged in QFN-14.



Features and Applications

Features

- 0.8% accuracy 0.8 V reference
- 4.5 V to 27 V battery/adaptor voltage range
- Selectable power saving mode/force PWM mode
- Lossless inductor current sensing
- Programmable adaptive voltage positioning (AVP)
- Input supply feedforward control
- Internal Soft-Start
- Integrated output discharge (Soft Stop)
- Built-in adaptive gate driver
- PGOOD indication
- Overvoltage, undervoltage and overcurrent protection
- Thermal shutdown

Applications

- Notebook Computers
- Tablet Computers

Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NCP5217AGEVB	Active	Pb-free	Synchronous Step-Down Controller Evaluation Board	NCP5217AMNTXG	» Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP5217AGEVB Bill of Materials ROHS Compliant	NCP5217AGEVB_BOM_ROHS.PDF - 185.0 KB	0
Eval Board: Gerber	NCP5217AGEVB Gerber Layout Files (Zip Format)	NCP5217AGEVB_GERBER.ZIP - 215.0 KB	0
Eval Board: Schematic	NCP5217AGEVB Schematic	NCP5217AGEVB_SCHEMATIC.PDF - 137.0 KB	0
Eval Board: Test Procedure	NCP5217AGEVB Test Procedure	NCP5217AGEVB_TEST_PROCEDURE.PDF - 212.0 KB	0
Video	Synchronous Step-Down Controller Evaluation Board - NCP5217AGEVB	TND6162/D	

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