

NCP5269B

System Agent Controller with 2-bit VID

Product Overview

For complete documentation, see the data sheet.

NCP5269B is a synchronous buck controller that is optimized for converting the battery voltage or adaptor voltage into power supply rails required in notebook and desktop system. NCP5269B is designed for applications requiring dynamically selected slew-rate controlled output voltages. The soft-start is programmed by a single capacitor. Voltage identification logic-inputs select four resistor programmed set-point reference voltages that directly set the output voltage of the converter between 0.65 V to 1.5 V. NCP5269B supports high efficiency, fast transient response and provides power good signal. Forced CCM operation provides DDR termination voltage with source/sink capability. The part operates with input voltage ranging from 3.3 V to 28 V. NCP5269B is available in a 20-pin 3 mm x 3 mm QFN package.

Features

- Forced CCM Operation
 - Wide Input Voltage Range: from 3.3 V to 28 V
 - Three Selectable Fixed Frequency 300 kHz, 400 kHz or 600 kHz
 - 2-Bit VID Selects Four Independent Voltages from 0.65 V to 1.5 V
 - $\pm 1.0\%$ System Accuracy
 - Differential Remote Output Voltage Sensing
 - Build-in Power-Good Masking Supports Voltage Identification(VID) On-The-Fly Transients
 - Soft Transient Control Reduces Inrush Current and Audio Noise
 - Simple Resistor Programming Voltage Levels
 - Programmable Soft-Start through a Single Capacitor
- For more features, see the data sheet

Applications

- DDR Termination Voltage
- I/O Supplies
- System Power Supplies

Benefits

- Forced CCM operation for DDR termination voltage with source/sink capability

End Products

- Notebooks, Desktops & Servers
- Graphic Cards