



ADP3209C: 5-Bit, Programmable, Single-Phase, Synchronous Buck Controller

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Overview

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Product Description

5-Bit, Programmable, Single-Phase, Synchronous Buck Controller

Features

- Single-chip solution. Fully compatible with the Intel® GMCH chipset voltage regulator specifications. Integrated MOSFET drivers.
- Input voltage range of 3.3V to 22V.
- ±8mV worst-case differentially sensed core voltage error over temperature.
- Automatic power-saving modes maximizes efficiency during light load operation.
- Soft transient control reduces inrush current and audio noise.
- Independent current limit and load line setting inputs for additional design flexibility.
- Built-in power-good masking supports voltage identification (VID) on-the-fly transients.
- 5-bit, digitally programmable DAC with 0.4V to 1.25V output.
- Short-circuit protection with latch-off delay.
- Output current monitor.
- 32-lead LFCSP.

Benefits

- Improved efficiency.
- Vast voltage range.
- Improved efficiency.
- Improved efficiency.
- Noise reduction.
- Increased flexibility.
- Improved efficiency.
- Improved efficiency.
- Improved protection.
- Improved efficiency.
- Package availability.

Applications

- Notebook power supplies for next-generation Intel® chipsets.

Technical Information

[Package Drawings \(1\)](#)

Availability and Samples

Product	Status	Pb-free	Description	Package			MSL*	Container		Budgetary Price/Unit
				Type	Pins	Case Outline		Type	Qty.	
ADP3209CJCPZ-RL	Active		5-Bit, Programmable, Single-Phase, Synchronous Buck Controller	LFCSP32, 5x5, 0.5P	32	932AE	3	Tape and Reel	5000	\$0.8666 Sample
ADP3209DJCPZ-RL	Active		5-Bit, Programmable, Single-Phase, Synchronous Buck Controller	LFCSP32, 5x5, 0.5P	32	932AE	3	Tape and Reel	5000	\$0.8666 Sample

Moisture Sensitivity level (MSL) for surface mount devices (lead free measured at 260°C reflow, non lead free at 235°C reflow)

Design Support

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New Semiconductor & Integrated Circuit Devices

NCP3011 : Synchronous PWM Controller

- ❖ Input voltage range of 4.7 to 28 V; 400 kHz switching frequency
- ❖ Provides 1.0 A gate drive with Vout as low as 0.8 V
- ❖ Ceramic output capacitors; sync external frequency; output over/undervoltage protection

NCP3020 : Synchronous PWM Controller

- ❖ Input voltage range of 4.7 to 28 V; switching frequency 300 kHz (NCP3020A), 600 kHz (NCP3020B)
- ❖ Provides 1.0 A gate drive with Vout as low as 0.6 V
- ❖ Ceramic output capacitors; regulated soft-start; output over/undervoltage protection