

## Product Overview

### ADP3211: Synchronous Buck Controller, 7-Bit, Programmable, Single-Phase

For complete documentation, see the data sheet.

The ADP3211 is a highly efficient, single-phase synchronous buck switching regulator controller. With its integrated driver, the ADP3211 is optimized for converting the notebook battery voltage to the supply voltage required by high performance Intel chipsets. An internal 7-bit DAC is used to read a VID code directly from the chip-set or the CPU and to set the GMCH render voltage or the CPU core voltage to a value within the range of 0 V to 1.5 V.

#### Features

- Single-chip solution. Fully compatible with the Intel® IMVP-6.5 CPU and GMCH chipset voltage regulator specifications integrated MOSFET drivers.
- Input voltage range of 3.3V to 22V.
- $\pm 7\text{mV}$  worst-case differentially sensed core voltage error overtemperature.
- 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) OTF transients.
- 7-bit, digitally programmable DAC with 0V to 1.5V output.
- Short-circuit protection.
- Current monitor output signal.

For more features, see the data sheet

#### Benefits

- Improved efficiency.
- Improved efficiency.
- Improved efficiency.
- Improved efficiency.
- Current and audio reduction.
- Improved design flexibility.
- Improved efficiency.
- Improved efficiency.
- Improved protection.
- Improved efficiency.

#### Applications

- Notebook power supplies for next generation Intel® Chipsets.
- Intel® netbook Atom processors.

#### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Topology	Phases	Control Mode	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	f <sub>SW</sub> Typ (kHz)	Package Type
ADP3211AMNR2G	0.6933	Pb-free Halide free non AEC-Q and PPAP	Active	Step-Down	1		3.3	22		QFN-32

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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