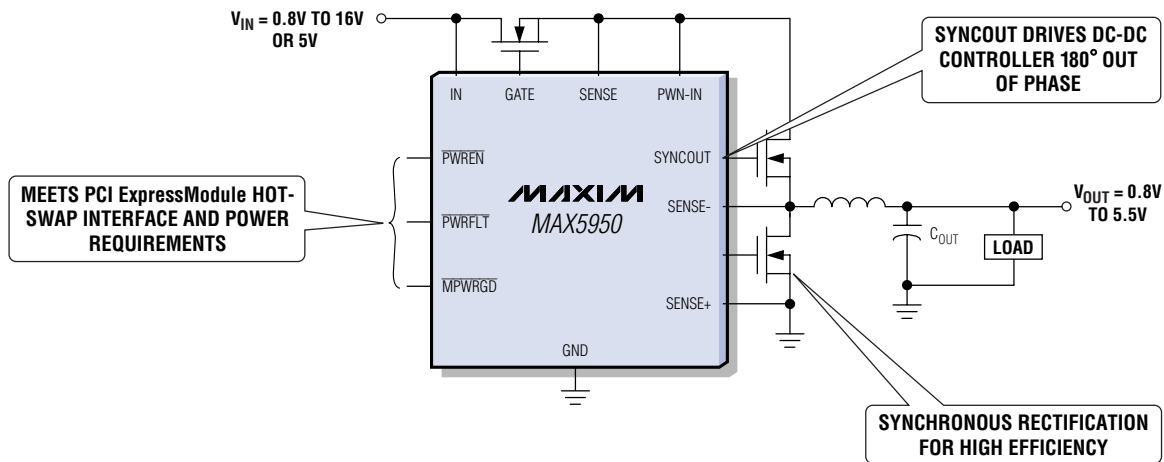


# HIGHEST INTEGRATION, 1MHz, 5V/12V INPUT, DC-DC CONTROLLER WITH INTEGRATED HOT-SWAP CONTROLLER

Optimized for PCI Express™ ExpressModule™ Power Management



## Provides Five Levels of Fault Protection

- ◆ Circuit-Breaker Function Protects Against Overcurrent Faults
- ◆ Lossless Current-Sense Scheme Eliminates  $R_{SENSE}$  and Provides Programmable Current-Limit Control
- ◆ N-Channel Hot-Swap Controller Provides Inrush-Current Control During Plug-In (MAX5950)
- ◆ Hiccup-Mode Short-Circuit Protection Allows the Device to Survive Continuous Short-Circuit Conditions
- ◆ Thermal Shutdown Protects the Device During Extended Fault Condition

## Superior Design Flexibility

- ◆ Allows Ratiometric Tracking or Sequencing for Multiple Supplies
- ◆ 100kHz to 1MHz Programmable Switching Frequency
- ◆ Digital Soft-Start Eliminates Output-Voltage Overshoot
- ◆ Programmable Undervoltage Lockout

Part	Includes Hot-Swap Function	Package	Price <sup>†</sup> (\$)
MAX5950	Yes	32-TQFN	1.87
MAX5951	No	32-TQFN	1.69

PCI Express and ExpressModule are registered trademarks of PCI-SIG Corp.

<sup>†</sup>1000-up recommended resale. Prices provided are for design guidance and are FOB USA. International prices will differ due to local duties, taxes, and exchange rates. Not all packages are offered in 1k increments, and some may require minimum order quantities.



[www.maxim-ic.com](http://www.maxim-ic.com)

**FREE Power Supplies Design Guide—Sent Within 24 Hours!**

CALL TOLL FREE 1-800-998-8800 (7:00 a.m.–5:00 p.m. PT)

For a Design Guide or Free Sample



Distributed by Maxim/Dallas Direct!, Arrow, Avnet Electronics Marketing, Digi-Key, and Newark.

The Maxim logo is a registered trademark of Maxim Integrated Products, Inc. The Dallas Semiconductor logo is a registered trademark of Dallas Semiconductor Corp.  
© 2006 Maxim Integrated Products, Inc. All rights reserved.