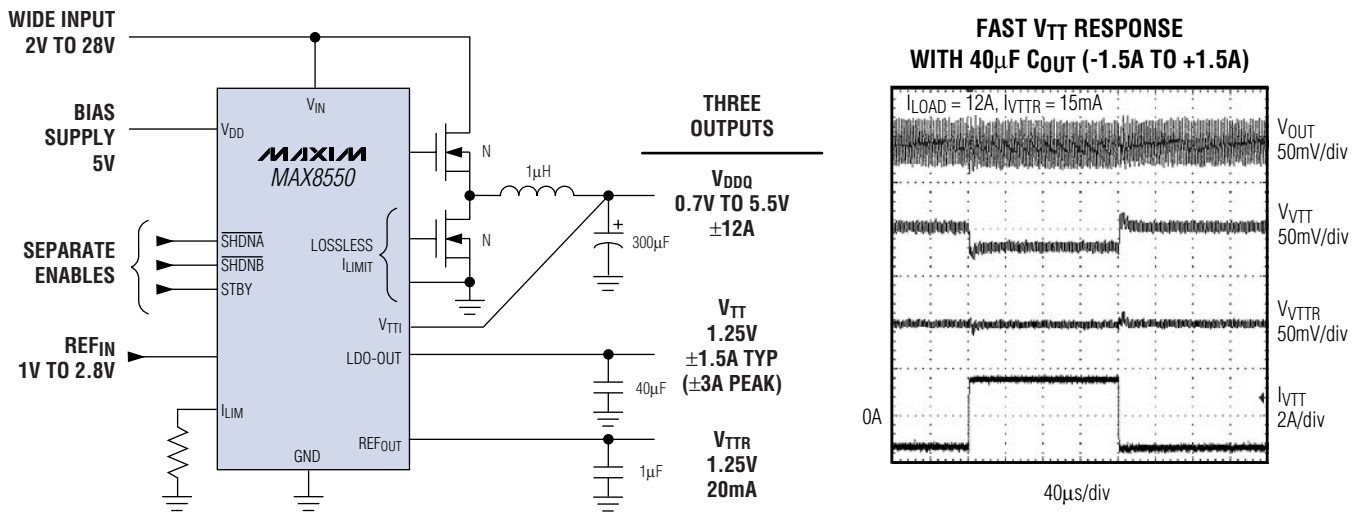


# LOWEST COST COMPLETE DDR SOLUTION FOR V<sub>DDQ</sub>, V<sub>TT</sub>, & V<sub>TTR</sub> ELIMINATES BULKY CAPACITORS

## 100ns Transient Response Reduces Capacitor Size and Cost

The MAX8550 reduces output capacitor size and cost on both the V<sub>DDQ</sub> and V<sub>TT</sub> supplies, making it the lowest cost DDR memory power-supply solution. The MAX8550 also has a wide input-voltage range up to 28V. The V<sub>TTQ</sub> supply is a  $\pm 12A$  DC-DC controller using Maxim's proprietary QuickPWM™ fast-transient architecture and responds to load transients in less than 100ns, reducing output capacitance requirements. The V<sub>TT</sub> supply is a built-in high-bandwidth LDO with  $\pm 1.5A$  sink-source capability ( $\pm 3A$  peak) which reduces the capacitor requirement to 40 $\mu F$ . Protections include undervoltage (UVP), overvoltage (OVP), overcurrent, and digital soft-start. The V<sub>TTR</sub> reference LDO delivers up to 20mA. All enables are separate.

### COMPLETE DDR SUPPLY



QuickPWM is a trademark of Maxim Integrated Products, Inc.



[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 (6:00 a.m.—6:00 p.m. PT)

For a Design Guide or Free Sample



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

MAXIM is a registered trademark of Maxim Integrated Products, Inc. DALLAS is a registered trademark of Dallas Semiconductor Corp. © 2004 Maxim Integrated Products.