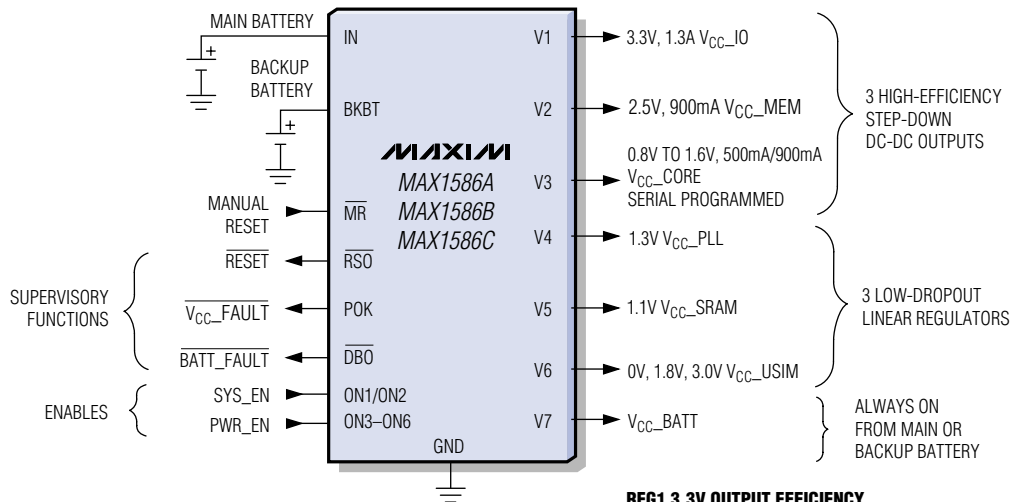


# HIGH-EFFICIENCY, LOW I<sub>Q</sub>, COMPLETE POWER SUPPLIES FOR XScale™ PROCESSOR-BASED PDAs AND SMART PHONES

**Includes Power Supplies, Supervisory and Management Functions**

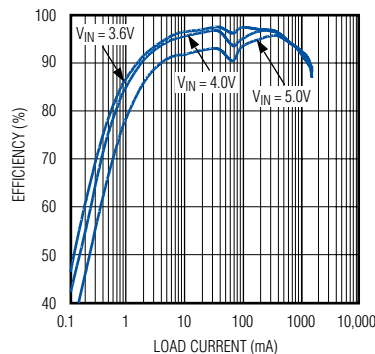
The MAX1586/MAX1587 power-management ICs integrate seven high-performance, low-operating-current power supplies with supervisory and management functions. Regulator outputs include three ultra-high-efficiency step-down DC-DC outputs, three linear regulators, and an always-on output (V7).

## SEVEN OUTPUTS, ALL SWITCHES INTERNAL, 1MHz PWM



- ◆ Low Operating Current
- ◆ 60µA in Sleep Mode (Sleep LDOs On)
- ◆ 5µA Shutdown Current
- ◆ Up to 900mA V<sub>CC\_Core</sub> for 624MHz Processor Frequency
- ◆ Tiny 6mm x 6mm, 40-Pin and 7mm x 7mm, 48-Pin TQFN
- ◆ Priced at \$5.00†

**REG1 3.3V OUTPUT EFFICIENCY vs. LOAD CURRENT**



XScale is a trademark of Intel Corporation.

† 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/pda](http://www.maxim-ic.com/pda)

**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.

The Maxim logo is a registered trademark of Maxim Integrated Products, Inc. The Dallas Semiconductor logo is a registered trademark of Dallas Semiconductor Corp.

© 2004 Maxim Integrated Products, Inc. All rights reserved.