

WORLD'S ONLY SINGLE-PIECE, SURFACE-MOUNT NV SRAM WITH INTEGRATED RTC

Packaging Innovation Eliminates Manual Cap Attachment!

Single-piece modules (SPMs) are NV SRAM products that give the system designer a simple and convenient way to protect mission-critical data from unexpected or unscheduled power loss. All SPMs are packaged in a 27mm x 27mm, 256-pin BGA and attach to PC boards with standard pick-and-place equipment and reflow processes. The new DS30xx series of single-piece NV SRAM modules also integrates a real-time clock (RTC). These devices are designed to operate within the industrial temperature range (-40°C to +85°C).

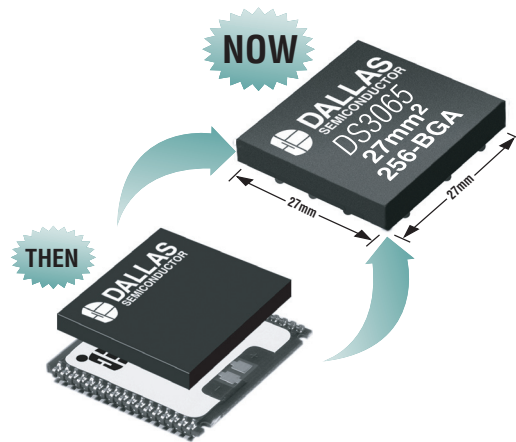
Benefits of Single-Piece Construction

- ◆ Uses Standard Pick-and-Place Equipment and SMT Reflow Processes
- ◆ Reduces Assembly Costs
 - ◆ No Manual Cap Attachment Required
- ◆ Higher Reliability
 - ◆ No Multipiece Interconnect/Spring Tabs
 - ◆ More Tolerant to Shock/Vibration

Applications

- ◆ RAID
- ◆ Servers
- ◆ POS
- ◆ Gaming
- ◆ PLCs
- ◆ Digital Oscilloscopes
- ◆ Hubs and Routers

SINGLE-PIECE NV SRAM WITH INTEGRATED RTC



**SAME 256-PIN
BGA FOOTPRINT
FOR ANY DENSITY
WITH/WITHOUT
RTC**

Part	Supply Voltage		RTC	Memory Density (Bits)
	3.3V	5V		
DS2030	✓	✓		32k x 8
DS2045	✓	✓		128k x 8
DS2050	✓			512k x 8
DS2065	✓			1M x 8
DS3030	✓		✓	32k x 8
DS3045	✓		✓	128k x 8
DS3050	✓		✓	512k x 8
DS3065	✓		✓	1M x 8



www.maxim-ic.com/SinglePiece

FREE Nonvolatile Memory 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.

© 2005 Maxim Integrated Products, Inc. All rights reserved.