



Strontium

# Desktop/Laptop DRAM Modules

Major Brands Chipset | Lifetime Strontium Warranty



## Highlights

### Desktop/Laptop Memory

- *Unbuffered 240pin DIMM (DIMM) and 204pin DIMM (SO-DIMM)*
- *Bi-Directional Differential Data Strobe*
- *Functionality and Operations Comply with the DDR3L SDRAM Datasheet*
- *8 Internal Banks, 8 Bit Pre-Fetch*
- *Universal Compatibility*
- *Lifetime Strontium® Limited Warranty*

## Speed Up Your System Performance.

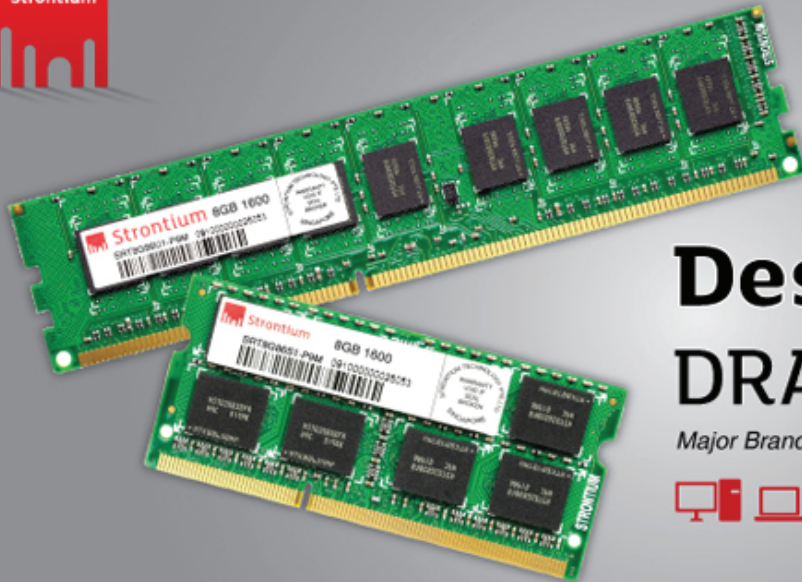
Strontium® Desktop and Laptop memory modules are specifically designed for rock-solid stability in demanding digital media rich environments. It allows users to maximize memory capacity and throughput to increase their systems performance for better multitasking, web browsing and gaming purposes.

Built to legendary quality and reliability standards, all memory modules of Strontium® pass through rigorous tests to ensure quality and compatibility with all major leading brands of desktops and laptops and to give highest performance to customers. Strontium® memory modules are Lead-free, RoHS-compliant and Halogen-free. They also run at 1.5V for maximum compatibility.

Strontium® Memory Modules are low power, high-speed operation memory modules that use major brand chipsets. Systems will run faster and help users become more productive with upgraded DDR1, DDR2 and DDR3 memory, especially when it is supported by the quality and reliability of Strontium®.

Features/Specs on reverse >>

[www.strontium.biz](http://www.strontium.biz)



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### Compatibility Table

*Tested with all popular brands of motherboards*

### Available Capacities

#### Desktop Modules (DIMM)

- 512MB DDR1 400
- 1GB DDR1 400
- 1GB DDR2 800
- 2GB DDR2 667 / 800
- 4GB DDR2 800
- 2GB DDR3 1066 / 1333
- 4GB DDR3 1066 / 1333
- 8GB DDR3 1333 / 1600

#### Laptop Modules (SO-DIMM)

- 512MB DDR1 400
- 1GB DDR1 400
- 1GB DDR2 800
- 2GB DDR2 667 / 800
- 4GB DDR2 800
- 2GB DDR3 1066 / 1333
- 4GB DDR3 1066 / 1333
- 8GB DDR3 1333 / 1600

## Product Features.

- Available Capacities: From DDR1 512MB 400MHz to DDR3 8GB 1600MHz
- Lifetime Strontium® warranty
- VDD = VDDQ = 1.5V ±0.075V
- 1.5V center-terminated push/pull I/O
- Differential bidirectional data strobe
- 8n-bit prefetch architecture
- Differential clock inputs (CK, CK#)
- 8 internal banks
- Nominal and dynamic on-die termination (ODT) for data, strobe, and mask signals
- Programmable CAS READ latency (CL)
- Posted CAS additive latency (AL)
- Programmable CAS WRITE latency (CWL) based on tCK
- Fixed burst length (BL) of 8 and burst chop (BC) of 4 (via the mode register set [MRS])
- Programmable CAS latency 9, 10, 11 supported
- Programmable additive latency 0, CL-1, and CL-2 supported
- Programmable CAS Write latency (CWL) = 9, 10, 11
- Selectable BC4 or BL8 on-the-fly (OTF)
- Self refresh mode
- Average Refresh Cycle (Tcase of 0 °C to 95 °C)
  - 64ms, 8192 cycle refresh at 0°C to 85°C
  - 32ms, 8192 cycle refresh at 85°C to 95°C
- Self refresh temperature (SRT)
- Write leveling
- Multipurpose register
- Output driver calibration
- JEDEC standard 78ball FBGA(x4/x8)
- RoHS compliant