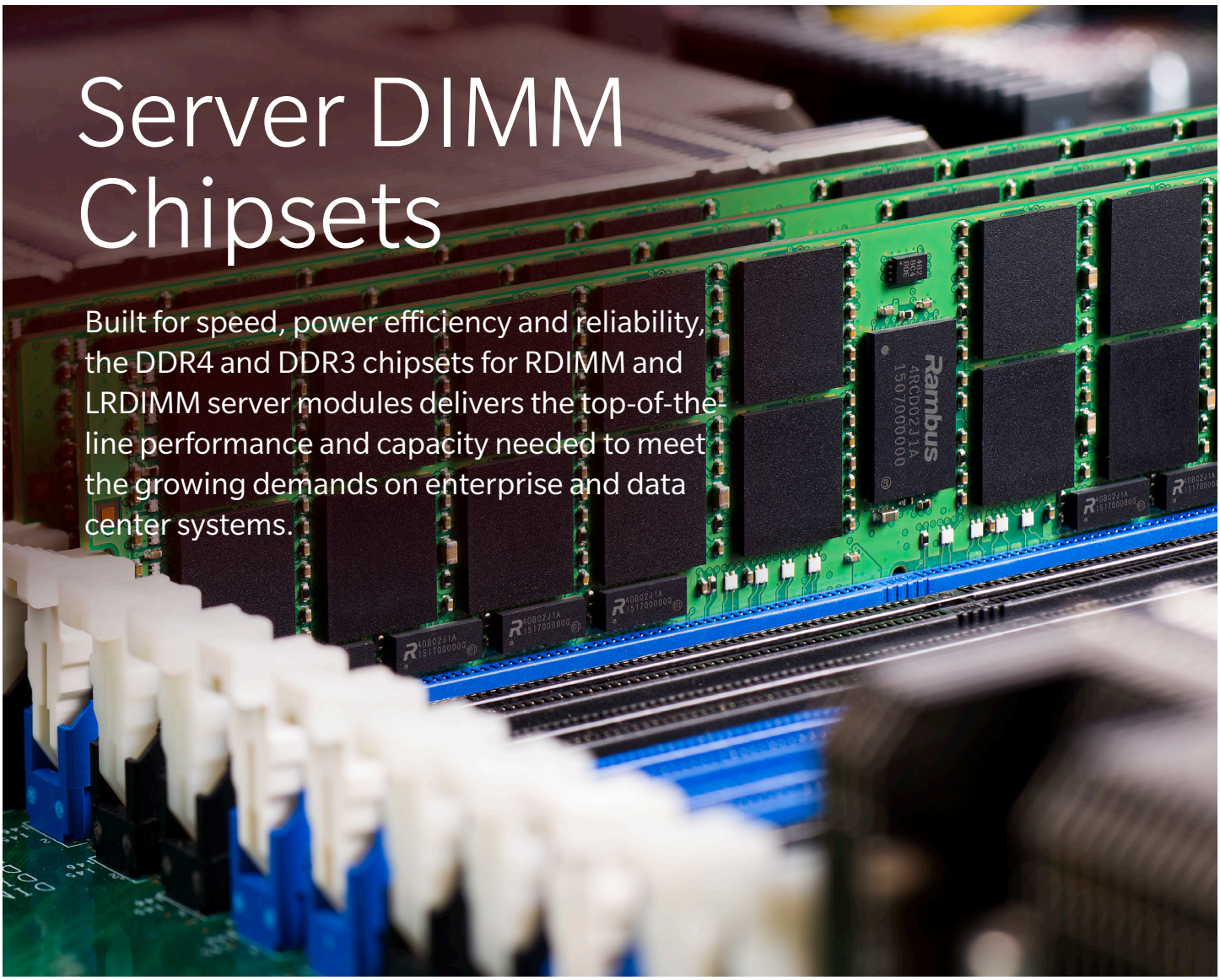
Rambus

MEMORY + INTERFACES
Server DIMM Chipsets
Solution Overview

Server DIMM Chipsets



Built for speed, power efficiency and reliability, the DDR4 and DDR3 chipsets for RDIMM and LRDIMM server modules delivers the top-of-the-line performance and capacity needed to meet the growing demands on enterprise and data center systems.

Industry-leading Performance

- Fully-compliant with the latest JEDEC standards
- Operational speeds up to 2666 Mbps

Enhanced Margin

- Wide margin I/O design with advanced programmability
- Exceed JEDEC reliability standards for ESD and EOS

Optimized Power

- Advanced power management
- Frequency-based, low-power optimization

Superior Debug and Serviceability

- Integrated tools for bring-up and debug
- Works out-of-the-box with no BIOS changes required

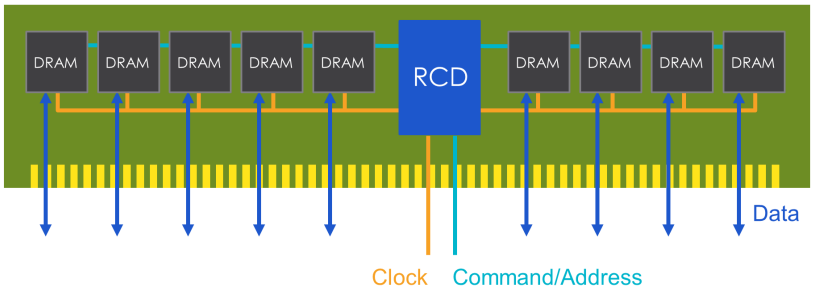
Overview

Built to meet the requirements of today's leading enterprise and data center servers, our DDR4 and DDR3 chipsets for RDIMM and LRDIMM, are JEDEC-compliant chips made for speed, power efficiency and reliability. The chipsets feature industry-leading I/O performance and margin, and leverages advanced power management techniques to advance the critical data center and enterprise server infrastructure for the growing demands of big data.

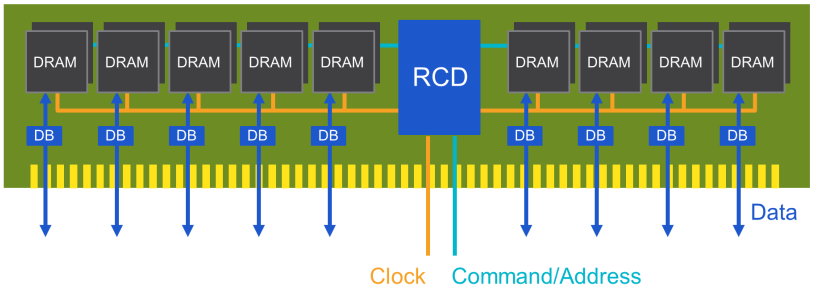
Used in in DDR3 and DDR4 registered dual inline memory modules (RDIMMs) and load reduced dual inline memory modules (LRDIMMs), the DDR4 Register Clock Driver (RCD) and Data Buffer (DB) and DDR3 RCD and Isolation Memory Buffer chips enable top-of-the-line performance and capacity with improved power efficiency for a wide array of memory-intensive applications including real-time analytics, in-memory computing, virtualization and business intelligence.

Product	Part Number	Data Rate
DDR4 Register Clock Driver	iDDR4RCD-GS02	2400/2666
DDR4 Data Buffer	iDDR4DB2-GS02	2400/2666
DDR3 Register Clock Driver	INSSTE32882XV	1660/1866/2133
DDR3 Isolation Memory Buffer	iMB02-GS02B	1600/1866

RDIMM



LRDIMM



Chipset Features

- Fully compliant with the latest JEDEC standards
- Used in DDR4 and DDR3 RDIMMs and LRDIMMs
- Supports DDR3 operation up to 2133 Mbps and DDR4 up to 2666 Mbps
- Multi-setting frequency- based power optimization
- Wide temperature range: -5° C - 125° C
- ROHS compliant
- Improved ESD/EOS beyond JEDEC requirements

Applications

High-performance, high-capacity systems including:

- Data centers
- Enterprise servers
- Workstations
- Storage
- Communications

rambus.com/dimmchipset