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Home / DRAM / Module

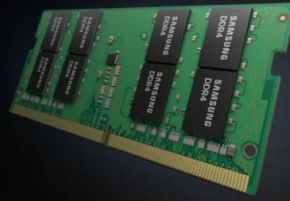**Module**

Memory modules for extensive use

Overview   Features   Product selector   Related solutions   Related insights

Proven DRAM module solution
in the global market

Samsung's memory modules are designed for a wide range of applications to deliver the best performance with low power requirements.

RDIMM

Registered DIMM

- Include a register for enhancing clock,
  command and control signals
- Error correction available by added 8 bit parity signals
- Supports x4 / x8 Organization / up to 2 ranks per DIMM and 3DPC
  configuration
- Application : Server

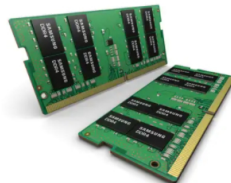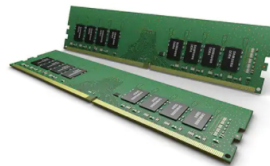# LRDIMM

Load Reduced DIMM

- Include a register for enhancing clock,
  command and control signals
- Enhanced data signal by placing data buffer
- Best solution for achieving high density with high speed
- Supports x4 Organization / up to 4 ranks per DIMM and 3DPC
- Application : Server

UDIMM

Unbuffered DIMM

- No buffer or register : smaller latency value
- Supports x8 / x16 Organization / up to 2 ranks per DIMM and
  2DPC configuration
- Application : Desktop

SODIMM

Small Outline DIMM

- Smaller than normal DIMMs
- Supports x8 / x16 / up to 2 ranks per DIMM and 2DPC
  configuration
- For systems with limited space issues
- Application : Laptop

ECC UDIMM
/ ECC SODIMM

Error Correction Code UDIMM / SODIMM

- Single error correction and detection available
- Supports x8 up to 2 ranks per DIMM
- Application : High-end desktop, High-end laptop, Server

Product selector

DDR	Dimm Type	Density	Rank x Org.	Speed	Voltage	Component Composition
☐ DDR4	☐ VLP RDIMM	☐ 256 GB	☐ 8R x 4	☐ 3200 Mbps	☐ 1.2 V	☐ (DDP8G x 4) x 36
☐ DDR3	☐ UDIMM	☐ 128 GB	☐ 4R x 4	☐ 2933 Mbps	☐ 1.5 V / 1.35 V	☐ (DDP4G x 4) x 36
	☐ SODIMM	☐ 64 GB	☐ 2R x 8	☐ 2666 Mbps		☐ (DDP4G x 4) x 18
	☐ RDIMM	☐ 32 GB	☐ 2R x 4	☐ 2400 Mbps		☐ (512M x 8) x 9
	☐ LRDIMM	☐ 16 GB	☐ 1R x 8	☐ 2133 Mbps		☐ (512M x 8) x 18
	☐ ECC UDIMM	☐ 8 GB	☐ 1R x 4	☐ 1866 Mbps		☐ (512M x 16) x 4
	☐ ECC SODIMM	☐ 4 GB	☐ 1R x 16	☐ 1600 Mbps		☐ (4H 3DS 8G x 4) x 36
						☐ (4H 3DS 16G x 4) x 36
						☐ (4G x 4) x 36
						☐ (4G x 4) x 18

	Part Number ▾	DDR ▾	Dimm Type ▾	Density ▾	Rank x Org. ▾	Speed ▾	Voltage ▾	Component Composition ▾
☐	M474A1G43DB0-CPB	DDR4	ECC SODIMM	8 GB	2R x 8	2133 Mbps	1.2 V	(512M x 8) x 18
☐	M474A1G43DB1-CRC	DDR4	ECC SODIMM	8 GB	2R x 8	2400 Mbps	1.2 V	(512M x 8) x 18
☐	M474A1G43EB1-CPB	DDR4	ECC SODIMM	8 GB	2R x 8	2133 Mbps	1.2 V	(512M x 8) x 18
☐	M474A1G43EB1-CRC	DDR4	ECC SODIMM	8 GB	2R x 8	2400 Mbps	1.2 V	(512M x 8) x 18
☐	M474A1K43BB1-CTD	DDR4	ECC SODIMM	8 GB	1R x 8	2666 Mbps	1.2 V	(1G x 8) x 18
☐	M474A1K43DB1-CTD	DDR4	ECC SODIMM	8 GB	1R x 8	2666 Mbps	1.2 V	(1G x 8) x 9
☐	M474A1K43DB1-CVF	DDR4	ECC SODIMM	8 GB	1R x 8	2933 Mbps	1.2 V	(1G x 8) x 9
☐	M474A1K43DB1-CWE	DDR4	ECC SODIMM	8 GB	1R x 8	3200 Mbps	1.2 V	(1G x 8) x 9
☐	M474A2K43BB1-CRC	DDR4	ECC SODIMM	16 GB	2R x 8	2400 Mbps	1.2 V	(1G x 8) x 18
☐	M474A2K43BB1-CTD	DDR4	ECC SODIMM	16 GB	2R x 8	2666 Mbps	1.2 V	(1G x 8) x 18
☐	M474A2K43DB1-CTD	DDR4	ECC SODIMM	16 GB	2R x 8	2933 Mbps	1.2 V	(1G x 8) x 18

COMPARE   EXPORT

Related solutions

Server & Network
The future of server and network infrastructure

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PC
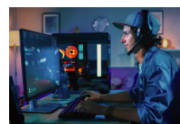Realizing dramatic speed and power

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