

DDR3

Industrial DRAM Module

DDR3 SDRAM is a type of synchronous dynamic random-access memory with a high bandwidth (double data rate) interface. It is the higher-speed successor to DDR and DDR2. The primary benefit of DDR3 SDRAM is its ability to transfer data at twice the rate (eight times the speed of its internal memory arrays) with higher bandwidth and better data rates.

DDR3 modules can transfer data at a rate of 800–2133 MT/s using both rising and falling edges of a 400–1066 MHz I/O clock. This is twice DDR2's data transfer rates (400–1066 MT/s using a 200–533 MHz I/O clock) and four times the rate of DDR (200–400 MT/s using a 100–200 MHz I/O clock). High-performance graphics was an initial driver of such bandwidth requirements, where high bandwidth data transfer between framebuffers is required.

The latencies of DDR3 are numerically higher because the I/O bus clock cycles by which they are measured are shorter; the actual time interval is similar to DDR2 latencies, around 10 ns. There is some improvement because DDR3 generally uses more recent manufacturing processes, but this is not directly caused by the change to DDR3.

DDR3 DRAM Modules are available in 2GB, 4GB, and 8GB capacities and have data transfer rates of 1066MT/s, 1333MT/s, 1600MT/s, and 1866MT/s. They also adhere to all pertinent JEDEC standards. The DDR3 standard permits DRAM chip capacities of up to 8 gigabits and up to 4 ranks of 64 bits each for a total maximum of 16 gigabytes per DDR3 DIMM.

Features :

- Fully Tested and Optimized for Stability and Performance
- Uses Original IC to Meet Strict Industrial Standards
- JEDEC Standard 1.5V (1.425V~1.575V) & 1.35V (1.28V~1.45V)
- Operating Environment : Standard 0°C to 85°C / Wide Temp. -40°C to 85°C
- Optional Anti-Sulfuration Protection
- Optional Conformal Coating Protection
- RoHS Compliance; CE/FCC Certification

Module Type	Memory Tech.	Speed	Density	Voltage	Pin Count	Std. Opr Temp	Ext. Opr Temp
UDIMM SODIMM	DDR3 DDR3L	1866 MT/s	2GB ~ 8GB	1.5v 1.35v	240 Pins (U) 204 Pins (S)	0 ~ 85 c	-40 c ~ 85 °c

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ECC UDIMM ECC SODIMM	DDR3 DDR3L	1866 MT/s	4GB ~ 8GB	1.5 v 1.35v	240 Pins (U) 204 Pins (S)	0 ~ 85 c	-40 c ~ 85 °c



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