

DRAM Components - DDR3

DDR3 is still widely used in industrial electronics. While some DRAM suppliers have decided to discontinue this technology, our intent is to keep it thriving to secure stock for our industrial customer base.

Intelligent Memory provides 8Gb and even 16Gb DDR3 memory ICs. These components are the basis for our ultra-high density DDR3 modules which support even the most demanding application settings.



DDR3 Components

Density	Organization	Maximum Speed (Data Rate Mbps)	Packages	Temperature*	EC	AE C-Q100
16Gb						
8Gb	x4 (2cs), x8 (1cs/2cs), x16 (1cs/2cs)	933MHz (1866Mbps)	FBGA-78, FBGA-96	Commercial, Industrial	N	N
4Gb	x8, x16	1066MHz (2133Mbps)	FBGA-78, FBGA-96	Commercial, Industrial	N	N
2Gb	x8, x16	933MHz (1866Mbps)	FBGA-78, FBGA-96	Commercial, Industrial	N	N
1Gb	x8, x16	933MHz (1866Mbps)	FBGA-78, FBGA-96	Commercial, Industrial	Y/ N	N

*Commercial = 0°C to +95°C / Industrial = -40°C to +95°C / High = -40°C to +105°C

KEY FEATURES

- Double data rate clocking timing, 1.35V or 1.5V power supply
- Data masking per byte on write commands
- Programmable burst length and CAS latency
- Auto refresh and self refresh
- Supported OCD (Off-Chip Driver impedance)
- Supported ODT (On-Die Termination)
- Write leveling
- High speed data transfer up to 2133MHz, available with commercial, industrial and automotive grades
- 1Gb, 2Gb, 4Gb, 8Gb and 16Gb are available
- Integrated ECC error correction available for 1Gb

