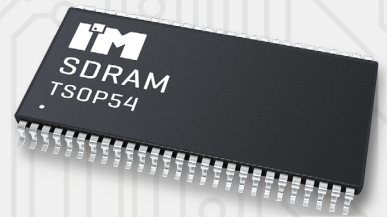
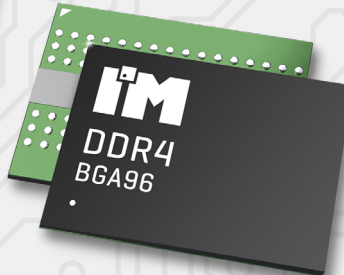
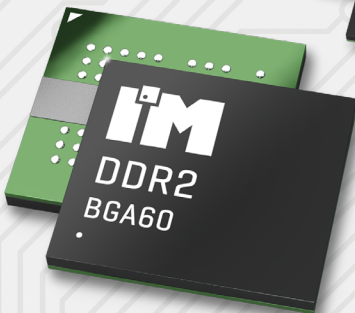
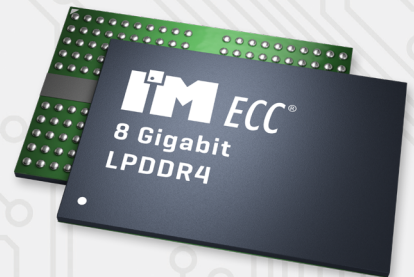
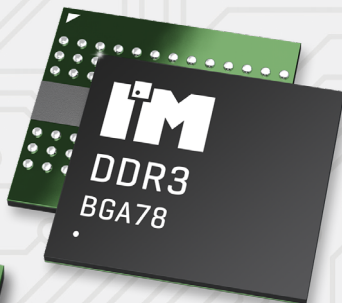
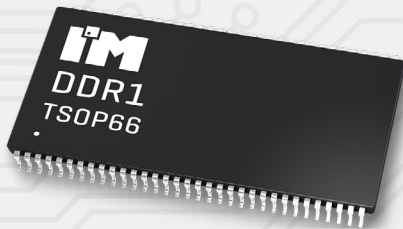


UNLIMITED INGENUITY



DRAM COMPONENTS



DURABILITY. RELIABILITY. LONGEVITY.

IM products are designed to meet the most excruciating requirements for industrial electronic applications, working at just about any temperatures and speeds that you can imagine. We provide a unique offering of DRAM components that exceed the standards for commercial reliability and quality.

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- Providing memory solutions for industrial and embedded applications for over 30 years
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- ECC and register feature enabled products
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DRAM PRODUCT FAMILY

LPDDR4

- Low Voltage Power Supply 1.8V and I/O at 1.1V
- Mobile features for lower power
- ZQ Calibration
- Integrated ECC error correction
- 4Gb x32 and 8Gb x32 are available

DDR4

- Double data rate clocking timing, 1.2V Power Supply
- Supported Data Bus Inversion (DBI)
- Supported Write Cycle Redundancy Check (CRC)
- Supported Dynamic ODT (On-Die Termination)
- Supported Fine Granularity Refresh Mode
- High speed data transfer up to 3200MHz
- 4Gb and 8Gb are available

DDR3

- 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)
- High speed data transfer up to 1866Mbps, available with Commercial and Industrial Grades
- 1Gb, 2Gb, 4Gb, 8Gb and 16Gb are available
- Write leveling
- Integrated ECC error correction available for 1Gb

DDR2

- Double data rate clocking timing, 1.8V Power Supply
- SSTL_18 compatible inputs
- Programmable burst length and CAS latency
- Auto-refresh and self-refresh
- Supported OCD (Off-Chip Driver impedance)
- Supported ODT (On-Die Termination)
- High speed data transfer up to 1066MHz
- 512Mb, 1Gb and 2Gb are available
- Integrated ECC error correction available for 1Gb

DDR

- Double data rate clocking timing, 2.5V Power Supply
- SSTL_2 compatible inputs
- Programmable burst length and CAS latency
- Auto-refresh and self-refresh
- High speed data transfer up to 400MHz, available in Commercial, Industrial and Automotive Grades
- 256Mb, 512Mb & 1Gb with TSOP II and BGA packages
- Integrated ECC error correction available for 1Gb

SDRAM

- Full Synchronous DRAM, 3.3V Power Supply
- Auto-refresh and self-refresh
- Programmable burst length:
 - 1, 2, 4, 8 & full page for sequential type
 - 1, 2, 4, 8 for interleave type
- High speed data transfer up to 200MHz, available with Commercial, Industrial and Automotive Grades
- 64Mb, 128Mb, 256Mb & 512Mb with TSOP II and BGA packages
- Integrated ECC error correction available

DRAM Components	64Mb	128Mb	256Mb	512Mb	1Gb	2Gb	4Gb	8Gb	16Gb
SDRAM (3.3V)	✓✓	✓✓	✓✓✓	✓✓✓					
DDR (2.5V)			✓✓	✓✓	✓✓				
DDR2 (1.8V)				✓	✓✓	✓✓			
DDR3 (1.35V/1.5V)					✓✓	✓	✓	✓✓	✓
DDR4 (1.2V)							✓	✓	✓
LPDDR4 (1.1V)							✓	✓	✓
Features:	✓ Commercial & Industrial Temperature Grade, Leaded balls package option available ✓ x4 configuration available ✓ ECC – On-chip ECC option available (AEC-Q100 also available) ✓ x32 configuration and/or BGA package available ✓ under consideration								



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