



### ISSI DDR4 Product Features:

- Standard Voltage: VDD = VDDQ = 1.2V, VPP=2.5V
- Data Integrity
  - Auto Self Refresh (ASR) by DRAM built-in TS
  - Auto Refresh and Self Refresh Modes
- DRAM access bandwidth
  - Separated IO gating structures by Bank Group
  - Self Refresh Abort
  - Fine Granularity Refresh
- Signal Synchronization
  - Write Leveling via MR settings
  - Read Leveling via MPR
- Reliability & Error Handling
  - Command/Address Parity
  - Data bus Write CRC
  - MPR readout
  - Boundary Scan (x16)
- Signal Integrity
  - Internal VREFDQ Training
  - Read Preamble Training
  - Gear Down Mode
  - Per DRAM Addressability
  - Configurable DS for system compatibility
  - Configurable On-Die Termination
  - Data bus Inversion (DBI)
  - ZQ Calibration for DS/ODT impedance accuracy via external ZQ pad [240 ohm +/-1%]
- Power Saving and efficiency
  - POD with VDDQ termination
  - Command/Address Latency (CAL)
  - Maximum Power Saving
  - Low power Auto Self Refresh (LPASR)
- Operating Temperature
  - Commercial [Tc = 0C to + 95C]
  - Industrial [Tc = -40C to + 95C]
  - Automotive, A1 [Tc = -40C to + 95C]
  - Automotive, A2 [Tc = -40C to + 105C]
  - Automotive, A3 [Tc = -40C to + 125C]

### Applications:

- **Automotive**
  - Infotainment
  - Telematics
  - Driver Information Systems
- **Telecom/Networking**
  - SDN, NFV
  - Access & Aggregation Nodes
  - Switches and Routers
  - Packet Optical Transport
  - Network Storage (PON OLT, DSLAM, CMTS, Wireless)
- **Industrial**
  - Human Machine Interface
  - Embedded Computing

### ISSI DDR4 SDRAM Ordering Options

Den	Speeds	Part No.	Org.	Pkg.	Status
4G	2666,2400,2100	IS43QR85120B	512Mx8	BGA[78]	S=Q4/19
	2666,2400,2100	IS43QR16256B	256Mx16	BGA[96]	S=NOW
8G	3200,2933,2666,2133,1866,1600	IS43QR81024A	1Gx8	BGA[78]	S=Q1/20
	3200,2933,2666,2133,1866,1600	IS43QR16512A	512Mx16	BGA[96]	S=Q1/20

### ISSI DDR4 SDRAM Automotive Ordering Options

Den	Speeds	Part No.	Org.	Pkg.	Status
4G	2666,2400,2100,1866,1600	IS46QR85120B	512Mx8	BGA[78]	S=Q4/19
	2666,2400,2100,1866,1600	IS46QR16256B	256Mx16	BGA[96]	S=Q3/19
8G	3200,2933,2666,2400,2133,1866,1600	IS46QR81024A	1Gx8	BGA[78]	S=Q2/20
	3200,2933,2666,2400,2133,1866,1600	IS46QR16512A	512Mx16	BGA[96]	S=Q2/20

# Mouser Electronics

Authorized Distributor

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ISSI:

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