DDR4

ISSI DDR4 Product Features:

- Standard Voltage: VDD = VDDQ = 1.2V, VPP=2.5V
- Data Integrity
 Auto Self Refresh (ASR) by DRAM builtin 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