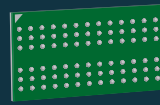




Long-Term Support
World Class Quality



DDR3 SDRAM

Up to 2133Mbps data rate

ISSI DDR3 Product Features:

- Bidirectional differential data strobe
- Data masking per byte on Write commands
- Programmable Burst length of 4 or 8
- Programmable CAS Latency
- Auto-Refresh and Self-Refresh Modes
- OCD (Driver Adjustment)
- ODT (On Die Termination) supported
- Write Leveling
- Packages: 96-ball BGA for x16, 78-ball BGA for x8
- Long-term support

Applications:

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

Key Timing Parameters

Speed Grade	-15G	-15H	-125J	-125K	-107M	-093N	Units
	DDR3-1333	DDR3-1333	DDR3-1600	DDR3-1600	DDR3-1866	DDR3-2133	
CL-tRCD-tRP	8-8-8	9-9-9	10-10-10	11-11-11	13-13-13	14-14-14	tCK
tCK [CL = 7]	1.875	1.875	1.875	1.875	1.875	1.875	ns
tCK [CL = 8]	1.5	1.875	1.5	1.875	1.875	1.875	ns
tCK [CL = 9]	1.5	1.5	1.5	1.5	1.5	1.5	ns
tCK [CL = 10]	--	--	1.25	1.5	1.5	1.5	ns
tCK [CL = 11]	--	--	1.25	1.25	1.25	1.25	ns
tCK [CL = 12]	--	--	--	--	--	--	ns
tCK [CL = 13]	--	--	--	--	1.07	1.07	ns
tCK [CL = 14]	--	--	--	--	--	0.938	ns
Frequency [max]	666	666	800	800	933	1066	MHz

Note: These are general specs. For any given part number, please refer to the corresponding datasheet.

ISSI DDR3 Ordering Options

Den.	Speeds	Part No.	Org.	Pkg.	Ordering Options	Status
1G	DDR3-1333, 1600, 1866, 2133	IS43TR16640B[L]	64M x 16	BGA[96]	-15GBL, -15GBLI, -125KBL, -125KBLI, -125JBL, -125JBLI, -107MBL, -107MBLI, -093NBL, -093NBLI	Prod
	DDR3-1333, 1600, 1866, 2133	IS43TR81280B[L]	128M x 8	BGA[78]	-15GBL, -15GBLI, -125KBL, -125KBLI, -125JBL, -125JBLI, -107MBL, -107MBLI, -093NBL, -093NBLI	Prod
2G	DDR3-1333, 1600, 1866, 2133	IS43TR16128B[L]	128M x 16	BGA[96]	-15HBL, -15HBLI, -125KBL, -125KBLI, -107MBL, -107MBLI, -093NBL, -093NBLI	Prod
	DDR3-1333, 1600, 1866	IS43TR16128C[L]	128M x 16	BGA[96]	-15HBL, -15HBLI, -125KBL, -125KBLI, -107MBL, -107MBLI	Prod
	DDR3-1333, 1600, 1866, 2133	IS43TR82560B[L]	256M x 8	BGA[78]	-15HBL, -15HBLI, -125KBL, -125KBLI, -107MBL, -107MBLI, -093NBL, -093NBLI	Prod
4G	DDR3-1333, 1600, 1866	IS43TR82560C[L]	256M x 8	BGA[78]	-15HBL, -15HBLI, -125KBL, -125KBLI, -107MBL, -107MBLI	Prod
	DDR3-1333, 1600, 1866, 2133	IS43TR16256A[L]	256M x 16	BGA[96]	-15HBL, -15HBLI, -125KBL, -125KBLI, -107MBL, -107MBLI, -093NBL, -093NBLI	Prod
	DDR3-1600, 1866, 2133	IS43TR85120A[L]	512M x 8	BGA[78]	-125KBL, -125KBLI, -107MBL, -107MBLI, -093NBL, -093NBLI	Prod
8G	DDR3-1333, 1600, 1866	IS43TR16512A[L] ⁵	512M x 16	BGA[96]	-15HBL, -15HBLI, -125KBL, -125KBLI, -107MBL, -107MBLI	Prod
	DDR3-1333, 1600, 1866, 2133	IS43TR81024B[L]	1G x 8	BGA[78]	-125KBL, -125KBLI, -107MBL, -107MBLI, -093NBL, -093NBLI	S=NOW
	DDR3-1333, 1600, 1866, 2133	IS43TR16512B[L]	512M x 16	BGA[96]	-125KBL, -125KBLI, -107MBL, -107MBLI, -093NBL, -093NBLI	S=NOW

Notes:

1. Automotive grade DDR3 part numbers begin with "IS46TR".
2. DDR3L is denoted with "L".
3. Additional speeds may be available.
4. S = Samples, Prod = Production
5. This product has two CS, and is Dual Rank