



Long-Term Support
World Class Quality

DRAM

LPDDR4/4X SDRAM

ISSI LPDDR4/4X Product Features:

- Low voltage core and I/O:
VDD1 = 1.8V
VDD2 = 1.1V
VDDQ = 1.1V [LPDDR4] or 0.6V [LPDDR4X]
- Frequency range:
10MHz to 1600MHz [date rate range: 20MT/s to 3200MT/s per I/O]
- 8 internal banks per channel for concurrent operation
- Programmable Read and Write Latencies
- Programmable and on-the-fly burst length [BL = 16 or 32]
- Temperature Sensor for efficient Self-Refresh control
- Adjustable Drive Strength
- Partial Array Self Refresh [PASR]
- Long-term Support
- Package: 200-ball BGA

ISSI LPDDR4 Ordering Options

Den.	Speeds	Part No.	Org.	Pkg.	Ordering Options	Status
2G	3200MT/s	IS43/46LQ16128A	Single channel [1 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	S=NOW
	3200MT/s	IS43/46LQ32640A	Two channel [2 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	S=NOW
4G	3200MT/s	IS43/46LQ16256A	Single channel [1 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	S=NOW
	3200MT/s	IS43/46LQ32128A	Two channel [2 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	Prod
8G	3200MT/s	IS43/46LQ32256A	Two channel [2 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	Prod

ISSI LPDDR4X Ordering Options

Den.	Speeds	Part No.	Org.	Pkg.	Ordering Options	Status
2G	3200MT/s	IS43/46LQ16128AL	Single channel [1 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	S=NOW
	3200MT/s	IS43/46LQ32640AL	Two channel [2 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	S=Q2/20
4G	3200MT/s	IS43/46LQ16256AL	Single channel [1 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	S=Q2/20
	3200MT/s	IS43/46LQ32128AL	Two channel [2 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	S=NOW
8G	3200MT/s	IS43/46LQ32256AL	Two channel [2 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	S=Q2/20

Notes:

1. S = Samples
2. Commercial and Industrial Grade Options begin with "IS43", Automotive Grade Options begin with "IS46".
3. BL = -25C/-30C to 85C, BLI = -40C to 95C, BLA1 = -40C to 95C, BLA2 = -40C to 105C, BLA3 = -40C to 125C
4. Please contact ISSI for availability of certain ordering options.



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ISSI LPDDR4 Ordering Options *with ECC*

Den.	Speeds	Part No.	Org.	Pkg.	Ordering Options	Status
2G	3200MT/s	IS43/46LQ16128EA	Single channel [1 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	S=Q2/20
	3200MT/s	IS43/46LQ32640EA	Two channel [2 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	S=NOW
4G	3200MT/s	IS43/46LQ16256EA	Single channel [1 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	S=NOW
	3200MT/s	IS43/46LQ32128EA	Two channel [2 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	S=NOW
8G	3200MT/s	IS43/46LQ32256EA	Two channel [2 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	S=NOW

ISSI LPDDR4X Ordering Options *with ECC*

Den.	Speeds	Part No.	Org.	Pkg.	Ordering Options	Status
2G	3200MT/s	IS43/46LQ16128EAL	Single channel [1 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	S=Q2/20
	3200MT/s	IS43/46LQ32640EAL	Two channel [2 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	S= Q2/20
4G	3200MT/s	IS43/46LQ16256EAL	Single channel [1 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	S= Q2/20
	3200MT/s	IS43/46LQ32128EAL	Two channel [2 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	S= Q2/20
8G	3200MT/s	IS43/46LQ32256EAL	Two channel [2 x16]	BGA[200]	-062BL, -062BLI, -062BLA1, -062BLA2, -062BLA3	S= Q2/20

Notes:

1. S = Samples
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Additional ISSI Mobile DRAM Options

Mobile DRAM	32Mb	64Mb	128Mb	256Mb	512Mb	1Gb	2Gb	4Gb
1.8V/2.5V/3.3V Mobile SDRAM	✓	✓	✓	✓	✓			
1.8V LPDDR	✓	✓	✓	✓	✓	✓	✓	
1.2V [1.8V] LPDDR2				✓	✓	✓	✓	✓

Notes:

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4. Please contact ISSI for availability of certain ordering options.