



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 1866MHz (date rate range: 20MT/s to 3733MT/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 (MT/s)	Part No.	Org.	Pkg.	Ordering Options	Status
2G	3200	IS43/46LQ16128A	Single channel [1 x16]	BGA[200]	-062TBLx, -062BLx	Prod
	3200	IS43/46LQ32640A	Two channel [2 x16]	BGA[200]	-062TBLx, -062BLx	Prod
4G	3200	IS43/46LQ16256A	Single channel [1 x16]	BGA[200]	-062TBLx, -062BLx	Prod
	3733, 3200	IS43/46LQ16256B	Single channel [1 x16]	BGA[200]	-053BLx, -062BLx	S=NOW
8G	3200	IS43/46LQ32128A	Two channel [2 x16]	BGA[200]	-062TBLx, -062BLx	Prod
	3733, 3200	IS43/46LQ16512A	Single channel [1 x16]	BGA[200]	-053BLx, -062BLx	S=Q1/23
	3200	IS43/46LQ32256A	Two channel [2 x16]	BGA[200]	-062BLx	Prod
	3733, 3200	IS43/46LQ32256B	Two channel [2 x16]	BGA[200]	-053BLx, -062BLx	S=NOW

ISSI LPDDR4X Ordering Options

Den.	Speeds (MT/s)	Part No.	Org.	Pkg.	Ordering Options	Status
2G	3200	IS43/46LQ16128AL	Single channel [1 x16]	BGA[200]	-062TBLx, -062BLx	Prod
	3200	IS43/46LQ32640AL	Two channel [2 x16]	BGA[200]	-062TBLx, -062BLx	Prod
4G	3200	IS43/46LQ16256AL	Single channel [1 x16]	BGA[200]	-062TBLx, -062BLx	Prod
	3733, 3200	IS43/46LQ16256BL	Single channel [1 x16]	BGA[200]	-053BLx, -062BLx	S=NOW
8G	3200	IS43/46LQ32128AL	Two channel [2 x16]	BGA[200]	-062TBLx, -062BLx	Prod
	3733, 3200	IS43/46LQ16512AL	Single channel [1 x16]	BGA[200]	-053BLx, -062BLx	S=Q1/23
	3200	IS43/46LQ32256AL	Two channel [2 x16]	BGA[200]	-062TBLx, -062BLx	Prod
	3733, 3200	IS43/46LQ32256BL	Two channel [2 x16]	BGA[200]	-053BLx, -062BLx	S=NOW

Notes:

1. S = Samples
2. Commercial and Industrial Grade Options begin with "IS43", Automotive Grade Options begin with "IS46".
3. BLx: BL1 = -40°C to 95°C, BLA1 = -40°C to 95°C, BLA2 = -40°C to 105°C, BLA3 = -40°C to 125°C
4. Please contact ISSI for availability of certain ordering options.



Long-Term Support
World Class Quality

LPDDR4/4X SDRAM

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]	-062TB2Lx, -062B2Lx	Prod
	3200MT/s	IS43/46LQ32640EA	Two channel [2 x16]	BGA[200]	-062TB2Lx, -062B2Lx	Prod
4G	3200MT/s	IS43/46LQ16256EA	Single channel [1 x16]	BGA[200]	-062TB2Lx, -062B2Lx	Prod
	3200MT/s	IS43/46LQ32128EA	Two channel [2 x16]	BGA[200]	-062TB2Lx, -062B2Lx	Prod
8G	3200MT/s	IS43/46LQ32256EA	Two channel [2 x16]	BGA[200]	-062B2Lx	Prod

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]	-062TB2Lx, -062B2Lx	Prod
	3200MT/s	IS43/46LQ32640EAL	Two channel [2 x16]	BGA[200]	-062TB2Lx, -062B2Lx	Prod
4G	3200MT/s	IS43/46LQ16256EAL	Single channel [1 x16]	BGA[200]	-062TB2Lx, -062B2Lx	Prod
	3200MT/s	IS43/46LQ32128EAL	Two channel [2 x16]	BGA[200]	-062TB2Lx, -062B2Lx	Prod
8G	3200MT/s	IS43/46LQ32256EAL	Two channel [2 x16]	BGA[200]	-062B2Lx	Prod

Notes:

1. S = Samples
2. Commercial and Industrial Grade Options begin with "IS43", Automotive Grade Options begin with "IS46".
3. B2Lx: B2L1 = -40°C to 95°C, B2LA1 = -40°C to 95°C, B2LA2 = -40°C to 105°C, B2LA3 = -40°C to 125°C
4. Please contact ISSI for availability of certain ordering options.

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				✓	✓	✓	✓	✓