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LPDDR4 and LPDDR4X SDRAM

- Low-voltage supplies: 1.8V, 1.1V
- I/O at 1.1V (LPDDR4) or 0.6V (LPDDR4X)
- Clock Frequency Range : 10MHz to 1600MHz
  - Data rates from : 20Mbps to 3200 Mbps per I/O
- 16n Pre-fetch DDR Architecture
- Multiplexed, double data rate, command/address inputs
- ZQ Calibration
- Mobile features for lower power
- Long-term support

LPDDR4 SDRAM

LPDDR4 SDRAM
LPDDR4X SDRAM
LPDDR4 with ECC SDRAM
LPDDR4X with ECC SDRAM

More Mobile DRAM Products

Mobile LPDDR2 SDRAM
Mobile DDR SDRAM
Low Voltage/Mobile SDR SDRAM

LPDDR4 SDRAM

Den	Org	Type	Part Number	Buy	Vcc	Speed	Pkg(Pins)	Status	Models
2G	Single Channel (1x16)	LPDDR4	IS43LQ16128A, IS46LQ16128A		1.1V/1.8V	3200	BGA(200)	Prod	IBIS
	Two Channel (2x16)	LPDDR4	IS43LQ32640A, IS46LQ32640A		1.1V/1.8V	3200	BGA(200)	S=Q3/20	IBIS
4G	Single Channel (1x16)	LPDDR4	IS43LQ16256A, IS46LQ16256A		1.1V/1.8V	3200	BGA(200)	Prod	IBIS
	Two channel (2x16)	LPDDR4	IS43LQ32128A, IS46LQ32128A		1.1V/1.8V	3200	BGA(200)	Prod	IBIS
8G	Two channel (2x16)	LPDDR4	IS43LQ32256A, IS46LQ32256A		1.1V/1.8V	3200	BGA(200)	Prod	IBIS

LPDDR4X SDRAM

Den	Org	Type	Part Number	Buy	Vcc	Speed	Pkg(Pins)	Status	Models
2G	Single channel (1x16)	LPDDR4X	IS43LQ16128AL, IS46LQ16128AL		0.6V/1.1V/1.8V	3200	BGA(200)	Prod	IBIS
	Two Channel (2x16)	LPDDR4X	IS43LQ32640AL, IS46LQ32640AL		0.6V/1.1V/1.8V	3200	BGA(200)	S=Q3/20	IBIS
4G	Single Channel (1x16)	LPDDR4X	IS43LQ16256AL, IS46LQ16256AL		0.6V/1.1V/1.8V	3200	BGA(200)	Prod	IBIS
	Two channel (2x16)	LPDDR4X	IS43LQ32128AL, IS46LQ32128AL		0.6V/1.1V/1.8V	3200	BGA(200)	Prod	IBIS
8G	Two channel (2x16)	LPDDR4X	IS43LQ32256AL, IS46LQ32256AL		0.6V/1.1V/1.8V	3200	BGA(200)	Prod	IBIS

LPDDR4 with ECC SDRAM

Den	Org	Type	Part Number	Buy	Vcc	Speed	Pkg(Pins)	Status	Models
2G	Single Channel (1x16)	LPDDR4	IS43LQ16128EA, IS46LQ16128EA		1.1V/1.8V	3200	BGA(200)	Prod	IBIS
	Two Channel (2x16)	LPDDR4	IS43LQ32640EA, IS46LQ32640EA		1.1V/1.8V	3200	BGA(200)	S=Q4/20	IBIS
4G	Single Channel (1x16)	LPDDR4	IS43LQ16256EA, IS46LQ16256EA		1.1V/1.8V	3200	BGA(200)	Prod	IBIS
	Two channel (2x16)	LPDDR4	IS43LQ32128EA, IS46LQ32128EA		1.1V/1.8V	3200	BGA(200)	Prod	
8G	Two channel (2x16)	LPDDR4	IS43LQ32256EA, IS46LQ32256EA		1.1V/1.8V	3200	BGA(200)	Prod	

LPDDR4X with ECC SDRAM

Den	Org	Type	Part Number	Buy	Vcc	Speed	Pkg(Pins)	Status	Models
2G	Single channel (1x16)	LPDDR4X	IS43LQ16128EAL, IS46LQ16128EAL		0.6V/1.1V/1.8V	3200	BGA(200)	Prod	IBIS
	Two Channel (2x16)	LPDDR4X	IS43LQ32640EAL, IS46LQ32640EAL		0.6V/1.1V/1.8V	3200	BGA(200)	S=Q4/20	IBIS
4G	Single Channel (1x16)	LPDDR4X	IS43LQ16256EAL, IS46LQ16256EAL		0.6V/1.1V/1.8V	3200	BGA(200)	Prod	IBIS
	Two channel (2x16)	LPDDR4X	IS43LQ32128EAL, IS46LQ32128EAL		0.6V/1.1V/1.8V	3200	BGA(200)	Prod	IBIS
8G	Two channel (2x16)	LPDDR4X	IS43LQ32256EAL, IS46LQ32256EAL		0.6V/1.1V/1.8V	3200	BGA(200)	Prod	IBIS

Notes:

- Simulation Models not listed above may be available upon request
- S = Sample, Prod = Production
- NR = Not Recommended for new designs
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