

Zentel SDRAM IC, DIMM & SLC NAND Flash IC Overview 2025

Type	Density	Config	Voltage	Package	Base Part Number click for datasheet	Speed options end suffixes	Industrial Grade Price adder	Automotive Temp Price adder	MoQ - Tray		MoQ - Tape&Reel	
						@ appropriate CAS Latency			Inner Box	Outer Box	Inner Box	Outer Box
SDRAM	64Mb	4Mx16	3.3V	TSOPII-54	A3V64S40GTP	-60 = 166MHz @CL3 (Note) (Note) Cover "-70 = 143MHz @CL3" & "-75 = 133MHz @CL3"	30 %	NA	1.080	6.480	1.000	5.000
SDRAM	128Mb	8Mx16	3.3V	TSOPII-54	A3V28S40JTP		30 %	NA	1.080	6.480	1.000	5.000
SDRAM	256Mb	16Mx16	3.3V	TSOPII-54	A3V56S40GTP		30 %	NA	1.080	6.480	1.000	5.000
SDRAM	256Mb	32Mx8	3.3V	TSOPII-54	A3V56S30GTP		30 %	NA	1.080	6.480	1.000	5.000

DDR	128Mb	8Mx16	2.5V	TSOPII-66	A3S28D40JTP	-50 = 200MHz @CL3 (Note) (Note) Cover "-60 = 166MHz @CL2.5" & "-75 = 133MHz @CL2"	30 %	NA	1.080	6.480	1.000	5.000
DDR	256Mb	16Mx16	2.5V	TSOPII-66	A3S56D40GTP		30 %	NA	1.080	6.480	1.000	5.000
DDR	512Mb	32Mx16	2.5V	TSOPII-66	A3S12D40GTP		30 %	NA	1.080	6.480	1.000	5.000

DDR2	256Mb	16Mx16	1.8V	FBGA-84	A3R56E40ABF	AH = 1066 @CL7, 8E = 800 @CL5	30 %	60 %	2.000	12.000	2.000	10.000
DDR2	512Mb	32Mx16	1.8V	FBGA-84	A3R12E40DBF		30 %	60 %	2.000	12.000	2.000	10.000
DDR2	512Mb	64Mx8	1.8V	FBGA-60	A3R12E30DBF		30 %	60 %	2.420	14.520	2.000	10.000
DDR2	1Gb	64Mx16	1.8V	FBGA-84	A3R1GE40JBF		30 %	60 %	2.000	12.000	2.500	12.500
DDR2	1Gb	128Mx8	1.8V	FBGA-60	A3R1GE30JBF		30 %	60 %	2.420	14.520	2.000	10.000
DDR2	2Gb	128Mx16	1.8V	FBGA-84	A3R2GE43JBF		NA	NA	2.000	12.000	2.000	10.000

DDR3	1Gb	64Mx16	1.5V	FBGA-96	A3T1GF40CBF	HP = 1866 @CL13, GM = 1600 @CL11	30 %	60 %	1.900	11.400	2.000	10.000
DDR3	1Gb	128Mx8	1.5V	FBGA-78	A3T1GF30CBF	HP = 1866 @CL13, GM = 1600 @CL11	30 %	60 %	2.200	13.200	2.000	10.000
DDR3L	1Gb	64Mx16	1.35V/1.5V	FBGA-96	A3T1GF40CBF	GML = 1600 @CL11	30 %	60 %	1.900	11.400	2.000	10.000
DDR3L	1Gb	128Mx8	1.35V/1.5V	FBGA-78	A3T1GF30CBF	GML = 1600 @CL11	30 %	60 %	2.200	13.200	2.000	10.000
DDR3L	2Gb	128Mx16	1.35V/1.5V	FBGA-96	A3T2GF40CBF	HP = 1866 @CL13	30 %	NA	2.090	12.540	2.000	10.000
DDR3L	2Gb	256Mx8	1.35V/1.5V	FBGA-78	A3T2GF30CBF	HP = 1866 @CL13	30 %	NA	2.420	14.520	2.000	10.000
DDR3	2Gb	128Mx16	1.5V	FBGA-96	A3T2GF40CBF	JR = 2133 @ CL14	30 %	NA	2.090	12.540	2.000	10.000
DDR3L	2Gb	128Mx16	1.35V/1.5V	FBGA-96	A3T2GF40CBF	JRL = 2133 @ CL14	30 %	NA	2.090	12.540	2.000	10.000
DDR3	2Gb	256Mx8	1.5V	FBGA-78	A3T2GF30CBF	JR = 2133 @ CL14	30 %	NA	2.420	14.520	2.000	10.000
DDR3L	2Gb	256Mx8	1.35V/1.5V	FBGA-78	A3T2GF30CBF	JRL = 2133 @ CL14	30 %	NA	2.420	14.520	2.000	10.000
DDR3L	4Gb	256Mx16	1.35V/1.5V	FBGA-96	A3T4GF40BBF	HP = 1866 @CL13	30 %	NA	2.090	12.540	2.000	10.000
DDR3L	4Gb	512Mx8	1.35V/1.5V	FBGA-78	A3T4GF30BBF	HP = 1866 @CL13	30 %	NA	2.420	14.520	2.000	10.000
DDR3	4Gb	256Mx16	1.5V	FBGA-96	A3T4GF40BBF	JR = 2133 @ CL14	30 %	NA	2.090	12.540	2.000	10.000
DDR3L	4Gb	256Mx16	1.35V/1.5V	FBGA-96	A3T4GF40BBF	JRL = 2133 @ CL14	30 %	NA	2.090	12.540	2.000	10.000
DDR3	4Gb	512Mx8	1.5V	FBGA-78	A3T4GF30BBF	JR = 2133 @ CL14	30 %	NA	2.420	14.520	2.000	10.000
DDR3L	4Gb	512Mx8	1.35V/1.5V	FBGA-78	A3T4GF30BBF	JRL = 2133 @ CL14	30 %	NA	2.420	14.520	2.000	10.000
DDR3L	4Gb ECC	256Mx16	1.35V/1.5V	FBGA-96	A3T4GF40CBF	GM = 1600 @CL11, HP = 1866 @CL13	30 %	60 %	1.900	11.400	2.000	10.000
DDR3L	4Gb ECC	512Mx8	1.35V/1.5V	FBGA-78	A3T4GF30CBF	GM = 1600 @CL11, HP = 1866 @CL13	30 %	60 %	2.200	13.200	2.000	10.000
DDR3L	8Gb	512Mx16	1.35V/1.5V	FBGA-96	A3T8GF43BBF	HPL = 1866 @CL13	30 %	NA	1.900	11.400	2.000	10.000
DDR3L	8Gb	1Gx8	1.35V/1.5V	FBGA-78	A3T8GF33BBF	HPL = 1866 @CL13	30 %	NA	2.200	13.200	2.000	10.000

DDR4	4Gb	256Mx16	1.2V	FBGA-96	A3F4GH40ABF	WD = 2666 @CL19	30 %	NA	2.090	12.540	2.000	10.000
DDR4	4Gb	256Mx16	1.2V	FBGA-96	A3F4GH40ABF	WD = 2666 @CL19, WC = 3200 @CL22	NA	NA	2.090	12.540	N/A	N/A
DDR4	8Gb	512Mx16	1.2V	FBGA-96	A3F8GH40BBF	KD = 2666 @CL19, MC = 3200 @CL22	NA	NA	2.090	12.540	N/A	N/A
LPDDR4	4Gb	2x 64Mx32	1.8V/1.1	FBGA-200	A8N4GH50BBA	PM = 3733 @WL/RL:18/36	NA	NA	1.200	7.200	N/A	N/A
LPDDR4	8Gb	2x 128Mx32	1.8V/1.1	FBGA-200	A8N8GH52ABF	PK = 3733 @WL/RL:16/32	NA	NA	1.200	7.200	N/A	N/A
LPDDR4x	16Gb	2x 256Mx32	1.8V/1.1/0.6	FBGA-200	A8XAGH50ABA	PM = 3733 @WL/RL:18/36	NA	NA	1.200	7.200	N/A	N/A
LPDDR4x	32Gb	2x 512Mx32	1.8V/1.1/0.6	FBGA-200	A8XBGH52ABA	PM = 3733 @WL/RL:18/36	NA	NA	1.200	7.200	N/A	N/A

Nand flash	PPI 1Gb	128 M x 8	3.3 V	TSOP-48	ANV1GA30ATS-BI	Page Size : (2048 + 64) bytes	0 %	NA	960	5.760	N/A	N/A
Nand flash	PPI 2Gb	256 M x 8	3.3 V	TSOP-48	ANV2GA30ATS-BI	Page Size : (2048 + 128) bytes	0 %	NA	960	5.760	N/A	N/A
Nand flash	SPI 1Gb	128 M x 8	3.3 V	LGA8	ANV1GCP0CLG-BI	Page Size : (2048 + 64) bytes	0 %	NA	4.800	28.800	N/A	N/A
Nand flash	SPI 2Gb	256 M x 8	3.3 V	LGA8	ANV2GCP0CLG-BI	Page Size : (2048 + 128) bytes	0 %	NA	4.800	28.800	N/A	N/A
Nand flash	SPI 1Gb	128 M x 8	1.8 V	WSON8	ANR1GCP0BWS-BI	Page Size : (2048 + 64) bytes	0 %	NA	4.800	28.800	N/A	N/A
Nand flash	SPI 2Gb	256 M x 8	1.8 V	WSON8	ANR2GCP0BWS-BI	Page Size : (2048 + 128) bytes	0 %	NA	4.800	28.800	N/A	N/A

DDR3 Module	2GB SODIMM	256 M x 8	1.35V	204-pin	A6T2GF3SACA-HP	HP = 1866 @CL13	NA	NA	100	300	N/A	N/A
DDR3 Module	4GB SODIMM	512 M x 8	1.35V	204-pin	A6T4GF3SACA-HP	HP = 1866 @CL13	NA	NA	100	300	N/A	N/A

DDR4 Module	8GB SODIMM	1Gx8	1.2V	260-Pin	A6F8GH3SBCA-MC	MC = 3200 @CL22	NA	NA	100	300	N/A	N/A
DDR4 Module	16GB SODIMM	2Gx8 (1Rx8)	1.2V	260-Pin	A6FAGH3SACA-MC	MC = 3200 @CL22	NA	NA	100	300	N/A	N/A
DDR4 Module	16GB SODIMM	1Gx8 (2Rx8)	1.2V	260-Pin	A6FAGH3DBCA-MC	MC = 3200 @CL22	NA	NA	100	300	N/A	N/A
DDR4 Module	8GB UDIMM	1Gx8	1.2V	288-Pin	A6F8GH3SBAA-MC	MC = 3200 @CL22	NA	NA	100	300	N/A	N/A
DDR4 Module	16GB UDIMM	2Gx8 (1Rx8)	1.2V	288-Pin	A6FAGH3SAAA-MC	MC = 3200 @CL22	NA	NA	100	300	N/A	N/A
DDR4 Module	16GB UDIMM	1Gx8 (2Rx8)	1.2V	288-Pin	A6FAGH3DBAA-MC	MC = 3200 @CL22	NA	NA	100	300	N/A	N/A