Zentel-Europe DRAM IC Product Overview 2023

Type	Density	Config	Voltage	Package	Status	Base P/N	Speed options	Industrial Grade Price adder	AutomotiveTemp Price adder	Lead Time (C-grade)	MoQ Tray Packing		MoQ Tape & Reel	
											Inner Box	Ship Carton	Inner Box	Ship Carton
SDRAM	64Mb	4Mx16	3.3V	TSOPII-54	MP	A3V64S40GTP	-60 = 166MHz @CL3 (Note) (Note) Cover "-70 = 143MHz @CL3" & "-75 = 133MHz @CL3"	30 %	NA	12W	1.080	6.480	1.000	5.000
SDRAM	128Mb	8Mx16	3.3V	TSOPII-54	MP	A3V28S40JTP		30 %	NA	12W	1.080	6.480	1.000	5.000
SDRAM	256Mb	16Mx16	3.3V	TSOPII-54	MP	A3V56S40GTP		30 %	NA	12W	1.080	6.480	1.000	5.000
SDRAM	256Mb	32Mx8	3.3V	TSOPII-54	MP	A3V56S30GTP		30 %	NA	12W	1.080	6.480	1.000	5.000
DDR2	256Mb	16Mx16	1.8V	FBGA-84	MP	A3R56E40ABF	AH = 1066 @CL7, 8E = 800 @CL5	30 %	60 %	12W	2.000	12.000	2.000	10.000
DDR2	512Mb	32Mx16	1.8V	FBGA-84	MP	A3R12E40DBF		30 %	60 %	12W	2.000	12.000	2.000	10.000
DDR2	512Mb	64Mx8	1.8V	FBGA-60	MP	A3R12E30DBF		30 %	60 %	12W	2.420	14.520	2.000	10.000
DDR2	1Gb	64Mx16	1.8V	FBGA-84	MP	A3R1GE40JBF		30 %	60 %	12W	2.000	12.000	2.500	12.500
DDR2	1Gb	128Mx8	1.8V	FBGA-60	MP	A3R1GE30JBF		30 %	60 %	12W	2.420	14.520	2.000	10.000
DDR2	2Gb DDP	128Mx16	1.8V	FBGA-84	MP	A3R2GE43JBF		NA	NA	12W	2.000	12.000	2.000	10.000
DDR3	1Gb	64Mx16	1.5V	FBGA-96	MP	A3T1GF40CBF	HP = 1866 @CL13, GM = 1600 @CL11	30 %	60 %	12W	1.900	11.400	2.000	10.000
DDR3	1Gb	128Mx8	1.5V	FBGA-78	MP	A3T1GF30CBF	HP = 1866 @CL13, GM = 1600 @CL11	30 %	60 %	12W	2.200	13.200	2.000	10.000
DDR3L	1Gb	64Mx16	1.35V/1.5V	FBGA-96	MP	A3T1GF40CBF	GML = 1600 @CL11	30 %	60 %	12W	1.900	11.400	2.000	10.000
DDR3L	1Gb	128Mx8	1.35V/1.5V	FBGA-78	MP	A3T1GF30CBF	GML = 1600 @CL11	30 %	60 %	12W	2.200	13.200	2.000	10.000
DDR3L RHF	2Gb	128Mx16	1.35V/1.5V	FBGA-96	MP	A3T2GF40CBF	HP = 1866 @CL13	30 %	NA	12W	2.090	12.540	2.000	10.000
DDR3L RHF	2Gb	256Mx8	1.35V/1.5V	FBGA-78	MP	A3T2GF30CBF	HP = 1866 @CL13	30 %	NA	12W	2.420	14.520	2.000	10.000
DDR3 RHF	2Gb	128Mx16	1.5V	FBGA-96	MP	A3T2GF40CBF	JR = 2133 @ CL14	30 %	NA	12W	2.090	12.540	2.000	10.000
DDR3L RHF	2Gb	128Mx16	1.35V/1.5V	FBGA-96	MP	A3T2GF40CBF	JRL = 2133 @ CL14	30 %	NA	12W	2.090	12.540	2.000	10.000
DDR3 RHF	2Gb	256Mx8	1.5V	FBGA-78	MP	A3T2GF30CBF	JR = 2133 @ CL14	30 %	NA	12W	2.420	14.520	2.000	10.000
DDR3L RHF	2Gb	256Mx8	1.35V/1.5V	FBGA-78	MP	A3T2GF30CBF	JRL = 2133 @ CL14	30 %	NA	12W	2.420	14.520	2.000	10.000
DDR3L RHF	4Gb	256Mx16	1.35V/1.5V	FBGA-96	MP	A3T4GF40BBF	HP = 1866 @CL13	30 %	NA	12W	2.090	12.540	2.000	10.000
DDR3L RHF	4Gb	512Mx8	1.35V/1.5V	FBGA-78	MP	A3T4GF30BBF	HP = 1866 @CL13	30 %	NA	12W	2.420	14.520	2.000	10.000
DDR3 RHF	4Gb	256Mx16	1.5V	FBGA-96	MP	A3T4GF40BBF	JR = 2133 @ CL14	30 %	NA	12W	2.090	12.540	2.000	10.000
DDR3L RHF	4Gb	256Mx16	1.35V/1.5V	FBGA-96	MP	A3T4GF40BBF	JRL = 2133 @ CL14	30 %	NA	12W	2.090	12.540	2.000	10.000
DDR3 RHF	4Gb	512Mx8	1.5V	FBGA-78	MP	A3T4GF30BBF	JR = 2133 @ CL14	30 %	NA	12W	2.420	14.520	2.000	10.000
DDR3L RHF	4Gb	512Mx8	1.35V/1.5V	FBGA-78	MP	A3T4GF30BBF	JRL = 2133 @ CL14	30 %	NA	12W	2.420	14.520	2.000	10.000
DDR3L RHF	4Gb ECC	256M×16	1.35V/1.5V	FBGA-96	CS	A3T4GF40CBF	HP = 1866 @CL13, GM = 1600 @CL11	Pending	NA	16W	1.900	11.400	2.000	10.000
DDR3L RHF	4Gb ECC	256M×8	1.35V/1.5V	FBGA-78	CS	A3T4GF30CBF	HP = 1866 @ CL13, GM = 1600 @CL11	Pending	NA	16W	2.200	13.200	2.000	10.000
DDR3L RHF	8Gb DDP	512Mx16	1.35V/1.5V	FBGA-96	MP	A3T8GF43BBF	HPL = 1866 @CL13	30 %	NA	16W	1.900	11.400	2.000	10.000
DDR3L RHF	8Gb DDP	1Gx8	1.35V/1.5V	FBGA-78	MP	A3T8GF33BBF	HPL = 1866 @CL13	30 %	NA	16W	2.200	13.200	2.000	10.000
DDR4	4Gb	256Mx16	1.2V	FBGA-96	MP	A3F4GH40CBF	WD = 2666 @CL19, WC = 3200 @CL22	NA	NA	16W	2.090	12.540	N/A	N/A
DDR4	8Gb	512Mx16	1.2V	FBGA-96	MP	A3F8GH40BBF	KD = 2666 @CL19, MC = 3200 @CL22	NA	NA	16W	2.090	12.540	N/A	N/A
LPDDR4	4Gb DDP	2x 64Mx32	1.8V/1.1	FBGA-200	MP	A8N4GH50BBA	PM = 3733 @ WL/RL:18/36	Pending	NA	16W	1.200	7.200	N/A	N/A
LPDDR4	8Gb DDP	2x 128Mx32	1.8V/1.1	FBGA-200	MP	A8N8GH52ABF	PK = 3733 @ WL/RL:16/32	Pending	NA	16W	1.200	7.200	N/A	N/A
LPDDR4x	16Gb DDP	2x 256Mx32	1.8V/1.1/0.6	FBGA-200	MP	A8XAGH50ABA	PM = 3733 @ WL/RL:18/36	Pending	NA	16W	1.200	7.200	N/A	N/A
LPDDR4x	32Gb DDP	2x 512Mx32	1.8V/1.1/0.6	FBGA-200	MP	A8XBGH52ABA	PM = 3733 @ WL/RL:18/36	Pending	NA	16W	1.200	7.200	N/A	N/A

Datasheet available per click on Basic Part/Number link - yellow highlighted DDR3 are Row-Hammer-Free with protection circuit inside