

Product Selection Guide of ESMT

DRAM

Updated Date : 11/06/2006

Density	Organization	Description	Refresh	Speed	Package	Part Number(Pb-free)	Sample	MP
4Mb	256Kb*16	EDO DRAM 5V	512	25ns	40L-SOJ	M11B416256A-25JP	Now	Now
		EDO DRAM 5V	512	35ns	44-40L-TSOPII	M11B416256A-35TG	Now	Now
		EDO DRAM 3.3V	512	35ns	40L-SOJ	M11L416256SA-35JP	Now	Now
		EDO DRAM 3.3V	512	35ns	40/44L-TSOPII	M11L416256SA-35TG	Now	Now

SDRAM

Density	Organization	Description	Refresh	Speed	Package	Part Number(Pb-free)	Sample	MP
16Mb	1Mb*16	SDRAM 2.5V	2K	143MHz	50L-TSOPII	M12S16161A-7TG	Now	Now
		SDRAM 2.5V	2K	143MHz	VFBGA	M12S16161A-7BG	Now	Now
		SDRAM 3.3V	2K	143MHz	50L-TSOPII	M12L16161A-7T(I)G	Now	Now
		SDRAM 3.3V	2K	200MHz	50L-TSOPII	M12L16161A-5T(I)G	Now	Now
		SDRAM 3.3V	2K	143MHz	VFBGA	M12L16161A-7B(I)G	Now	Now
32Mb	2M*16	SDRAM 3.3V	2K	143MHz	54L-TSOPII	M12L32162A-7TG	Now	Now
	1M*32	SDRAM 3.3V	2K	143MHz	90-FBGA	M12L32321A-7BG	Now	Now
64Mb	4Mb*16	SDRAM 2.5V	4K	100MHz	54L-TSOPII	M12S64164A-10TG	Now	Now
		SDRAM 3.3V	4K	143MHz	54L-TSOPII	M12L64164A-7T(I)G	Now	Now
		SDRAM 3.3V	4K	200MHz	54L-TSOPII	M12L64164A-5TG	Now	Now
	2M*32	SDRAM 2.5V	4K	143MHz	86L-TSOPII	M12S64322A-7TG	Now	Now
		SDRAM 3.3V	4K	166MHz	86L-TSOPII	M12L64322A-6T(I)G	Now	Now
		SDRAM 3.3V	4K	200MHz	86L-TSOPII	M12L64322A-5TG	Now	Now
128Mb	8M*16	SDRAM 2.5V	4K	143MHz	54L-TSOPII	M12S128168A-7TG	Now	Now
		SDRAM 2.5V	4K	166MHz	54L-TSOPII	M12S128168A-6TG	Now	Now
		SDRAM 3.3V	4K	143MHz	54L-TSOPII	M12L128168A-7TG	Now	Now
		SDRAM 3.3V	4K	166MHz	54L-TSOPII	M12L128168A-6TG	Now	Now
	4M*32	SDRAM 2.5V	4K	166MHz	90-FBGA	M12S128324A-6BG	Now	Now
		SDRAM 2.5V	4K	143MHz	86L-TSOPII	M12S128324A-7TG	Now	Now
		SDRAM 2.5V	4K	166MHz	86L-TSOPII	M12S128324A-6TG	Now	Now
		SDRAM 3.3V	4K	143MHz	90-FBGA	M12L128324A-7B(I)G	Now	Now
		SDRAM 3.3V	4K	166MHz	90-FBGA	M12L128324A-6B(I)G	Now	Now
		SDRAM 3.3V	4K	143MHz	86L-TSOPII	M12L128324A-7T(I)G	Now	Now
		SDRAM 3.3V	4K	166MHz	86L-TSOPII	M12L128324A-6T(I)G	Now	Now

DDR SDRAM (Dobule-Data-Rate SDRAM)

Density	Organization	Description	Refresh	Speed	Package	Part Number(Pb-free)	Sample	MP
32Mb	1M*32	DDR-SDRAM 2.5V	4K	166MHz	100-LQFP	M13S32321A-6L	Now	Now
		DDR-SDRAM 2.5V	4K	200MHz	100-LQFP	M13S32321A-5L	Now	Now
64Mb	4M*16	DDR-SDRAM 2.5V	4K	166MHz	66L-TSOPII	M13S64164A-6TG	Q2'07	Q3'07
		DDR-SDRAM 2.5V	4K	200MHz	66L-TSOPII	M13S64164A-5TG	Q2'07	Q3'07
128Mb	8M*16	DDR-SDRAM 2.5V	4K	166MHz	66L-TSOPII	M13S128168A-6TG	Now	Now
		DDR-SDRAM 2.5V	4K	200MHz	66L-TSOPII	M13S128168A-5TG	Now	Now
	4Mx32	DDR-SDRAM 2.5V	4K	166MHz	144-FBGA(12x12mm)	M13S128324A-6BG	Now	Now
		DDR-SDRAM 2.5V	4K	200MHz	144-FBGA(12x12mm)	M13S128324A-5BG	Now	Now
256Mb	16Mx16	DDR-SDRAM 2.5V	4K	200MHz	66L-TSOPII	M13S2561616A-5TG	Now	Now

*Identifier of Pb-free as G or P is shown on outer carton.

**Industrial spec : (I) Operating temperature -40°C ~+85 °C.

Mobile SDRAM

(1)All Mobile functions are included : PASR,TCSR,DS,Deep power down mode.
 (2)Max. Icc6 : Self-refresh current with full bank in 70 °C .

Density	Organization	Description	Refresh	Speed	Package & MCP	Part Number(Pb-free)	Sample	MP
16Mb	1Mx16 Max. Icc6 = 75uA (1.8V)	Mobile SDRAM 2.5V	4K	100MHz	50L-TSOPII	M52S16161A-10T(I)G	Now	Now
		Mobile SDRAM 2.5V	4K	125MHz	50L-TSOPII	M52S16161A-8T(I)G	Now	Now
		Mobile SDRAM 1.8V	4K	100MHz	50L-TSOPII	M52D16161A-10T(I)G	Now	Now
32Mb	2Mx16	Mobile SDRAM 2.5V	4K	100MHz	54L-TSOPII	M52S32162A-10T(I)G	Now	Now
		Mobile SDRAM 2.5V	4K	100MHz	54-FBGA	M52S32162A-10B(I)G	Now	Now
		Mobile SDRAM 2.5V	4K	133MHz	54L-TSOPII	M52S32162A-7.5T(I)G	Now	Now
		Mobile SDRAM 2.5V	4K	133MHz	54-FBGA	M52S32162A-7.5B(I)G	Now	Now
		Mobile SDRAM 1.8V	4K	100MHz	54L-TSOPII	M52D32162A-10T(I)G	Now	Now
	1Mx32	Mobile SDRAM 1.8V	4K	100MHz	54-FBGA	M52D32162A-10B(I)G	Now	Now
		Mobile SDRAM 1.8V	4K	100MHz	54L-TSOPII	M52D32162A-7.5T(I)G	Now	Now
		Mobile SDRAM 1.8V	4K	133MHz	54-FBGA	M52D32162A-7.5B(I)G	Now	Now
		Mobile SDRAM 2.5V	4K	100MHz	90-FBGA	M52S32321A-10B(I)G	Now	Now
		Mobile SDRAM 2.5V	4K	133MHz	90-FBGA	M52S32321A-7.5B(I)G	Now	Now
64Mb	4Mx16	Mobile SDRAM 1.8V	4K	100MHz	90-FBGA	M52D32321A-10B(I)G	Now	Now
		Mobile SDRAM 1.8V	4K	133MHz	90-FBGA	M52D32321A-7.5B(I)G	Now	Now
		Mobile SDRAM 2.5V	4K	100MHz	54L-TSOPII	M52S64164A-10T(I)G	Q2 '07	Q3 '07
		Mobile SDRAM 2.5V	4K	100MHz	54-FBGA	M52S64164A-10B(I)G	Q2 '07	Q3 '07
		Mobile SDRAM 2.5V	4K	133MHz	54L-TSOPII	M52S64164A-7.5T(I)G	Q2 '07	Q3 '07
		Mobile SDRAM 2.5V	4K	133MHz	54-FBGA	M52S64164A-7.5B(I)G	Q2 '07	Q3 '07
		Mobile SDRAM 1.8V	4K	100MHz	54L-TSOPII	M52D64164A-10T(I)G	Q2 '07	Q3 '07
	2Mx32	Mobile SDRAM 1.8V	4K	100MHz	54-FBGA	M52D64164A-10B(I)G	Q2 '07	Q3 '07
		Mobile SDRAM 1.8V	4K	100MHz	54L-TSOPII	M52D64164A-7.5T(I)G	Q2 '07	Q3 '07
		Mobile SDRAM 1.8V	4K	100MHz	54-FBGA	M52D64164A-7.5B(I)G	Q2 '07	Q3 '07
		Mobile SDRAM 2.5V	4K	100MHz	86L-TSOPII	M52S64322A-10T(I)G	Q2 '07	Q3 '07
		Mobile SDRAM 2.5V	4K	100MHz	90-FBGA	M52S64322A-10B(I)G	Q2 '07	Q3 '07
		Mobile SDRAM 2.5V	4K	133MHz	86L-TSOPII	M52S64322A-7.5T(I)G	Q2 '07	Q3 '07
		Mobile SDRAM 2.5V	4K	133MHz	90-FBGA	M52S64322A-7.5B(I)G	Q2 '07	Q3 '07
	Mobile SDRAM 1.8V	4K	100MHz	86L-TSOPII	M52D64322A-10T(I)G	Q2 '07	Q3 '07	
	Mobile SDRAM 1.8V	4K	100MHz	90-FBGA	M52D64322A-10B(I)G	Q2 '07	Q3 '07	
	Mobile SDRAM 1.8V	4K	100MHz	86L-TSOPII	M52D64322A-7.5T(I)G	Q2 '07	Q3 '07	
	Mobile SDRAM 1.8V	4K	133MHz	90-FBGA	M52D64322A-7.5B(I)G	Q2 '07	Q3 '07	

*Identifier of Pb-free as G or P is shown on outer carton.

**Industrial spec : (I) Operating temperature -40°C ~+85 °C.