

IX. Memory Section

NMOS Dynamic RAM

Memory size	Type No.	Organization	Maximum access time (ns)		Minimum cycle time (ns)	Power supply (V)	Maximum power consumption (mW)		No. of pins	Mode
			t _{RAC}	t _{CAC}			Active	Standby		
256K bit	TMM41256AP/AT/AZ-10	262,144 × 1	100	50	190	5V ± 10%	440	28	16/18/16	Page Mode
	TMM41256AP/AT/AZ-12		120	60	220		396			
	TMM41256AP/AT/AZ-15		150	75	260		358			
	TMM41257AP/AT/AZ-10		100	50	190		440			
	TMM41257AP/AT/AZ-12		120	60	220		396			
	TMM41257AP/AT/AZ-15		150	75	260		358			
	TMM41464AP/AT/AZ-10	65,536 × 4	100	50	190	440	28	18/18/20	Page Mode	
	TMM41464AP/AT/AZ-12		120	60	220	396				
TMM41464AP/AT/AZ-15	150		75	260	358					

CMOS Dynamic RAM

Memory size	Type No.	Organization	Maximum access time (ns)		Minimum cycle time (ns)	Power supply (V)	Maximum power consumption (mW)		No. of pins	Mode		
			t _{RAC}	t _{CAC}			Active	Standby				
256K Bit	※ TC51256P/T/Z-60	262,144 × 1	60	20	115	5V ± 10%	495	5.5	16/18/16	Fast Page Mode		
	※ TC51256P/T/Z-70		70	20	130		440					
	※ TC51256P/T/Z-80		80	20	150		385					
	※ TC51256PL/TL/ZL-80		80	20	150		385				11	Fast Page Mode Low Power Version
1M Bit	TC511000AP/AJ/AZ-70	1,048,576 × 1	70	20	130	5V ± 10%	440	Fast Page	18/26/20	Fast Page Mode		
	TC511000AP/AJ/AZ-80		80	20	150		385				5.5	
	TC511000AP/AJ/AZ-10		100	25	180		330	1.1			18/26/20	Fast Page Mode Low Power Version
	TC511000APL/AJL/AZL-70		70	20	130		440					
	TC511000APL/AJL/AZL-80		80	20	150		385					
	TC511000APL/AJL/AZL-10		100	25	180		330					
	TC511001AP/AJ/AZ-70		70	20	130		440	5.5			18/26/20	Nibble Mode
	TC511001AP/AJ/AZ-80		80	20	150		385					
	TC511001AP/AJ/AZ-10		100	25	180		330	5.5			18/26/20	Static Column Mode
	TC511002AP/AJ/AZ-70		70	20	130		440					
	TC511002AP/AJ/AZ-80	80	20	150	385							
	TC511002AP/AJ/AZ-10	100	25	180	330							
	TC514256AP/AJ/AZ-70	262,144 × 4	70	20	130	5V ± 10%	440	5.5	20/26/20	Fast Page Mode		
	TC514256AP/AJ/AZ-80		80	20	150		385					
	TC514256AP/AJ/AZ-10		100	25	180		330	1.1			20/26/20	Fast Page Mode Low Power Version
	TC514256APL/AJL/AZL-70		70	20	130		440					
	TC514256APL/AJL/AZL-80		80	20	150		385					
	TC514256APL/AJL/AZL-10		100	25	180		330					
	TC514258AP/AJ/AZ-70		70	25	130		440	5.5			20/26/20	Static Column Mode
	TC514258AP/AJ/AZ-80		80	25	150		385					
TC514258AP/AJ/AZ-10	100		30	180	330		5.5	20/26/20			Fast Page Mode with Write Per Bit	
TC514266AP/AJ/AZ-70	70		20	130	440							
TC514266AP/AJ/AZ-80	80	20	150	385								
TC514266AP/AJ/AZ-10	100	25	180	330								
4M Bit	※ TC514100J/Z-80	4,194,304 × 1	80	20	150	5V ± 10%	550	5.5	26/20	Fast Page Mode		
	※ TC514100J/Z-10		100	25	180		468					
	※ TC514100JL/ZL-80		80	20	150		550	2.2			26/20	Fast Page Mode Low Power Version
	※ TC514100JL/ZL-10		100	25	180		468					
	※ TC514101J/Z-80		80	20	150		578	5.5			26/20	Nibble Mode
	※ TC514101J/Z-10		100	25	180		495					
	※ TC514102J/Z-80		80	20	150		550	5.5			26/20	Static Column Mode
	※ TC524102J/Z-10		100	25	180		468					
	※ TC514400J/Z-80	80	20	150	578	5.5	26/20	Fast Page Mode				
	※ TC514400J/Z-10	100	25	180	495							
	※ TC514400JL/ZL-80	80	20	150	578	2.2	26/20	Fast Page Mode Low Power Version				
	※ TC514400JL/ZL-10	100	25	180	495							
	※ TC514402J/Z-80	80	20	150	578	5.5	26/20	Static Column Mode				
	※ TC514402J/Z-10	100	25	180	495							
	※ TC514410J/Z-80	80	20	150	578	5.5	26/20	Fast Page Mode with Write Per Bit				
	※ TC514410J/Z-10	100	25	180	495							