

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	5V ± 10%	396	28	16/18/16	Nibble Mode	
	TMM41257AP/AT/AZ-15	150	75	260		358				
	TMM41464AP/AT/AZ-10	100	50	190		440				
	TMM41464AP/AT/AZ-12	120	60	220	5V ± 10%	396	28	18/18/20	Page Mode	
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			1.1	Fast Page Mode Low Power Version			
	※ TC51256PL/TL/ZL-80		80	20	150		385							
1M Bit	TC511000AP/AJ/AZ-70	1,048,576 × 1	70	20	130	5V ± 10%	440	5.5	18/26/20	Fast Page Mode				
	TC511000AP/AJ/AZ-80		80	20	150		385							
	TC511000AP/AJ/AZ-10		100	25	180		330							
	TC511000APL/AJL/AZL-70		70	20	130		5V ± 10%				440	1.1	18/26/20	Fast Page Mode Low Power Version
	TC511000APL/AJL/AZL-80		80	20	150						385			
	TC511000APL/AJL/AZL-10		100	25	180	330								
	TC511001AP/AJ/AZ-70		70	20	130	5V ± 10%	440	5.5	18/26/20	Nibble Mode				
	TC511001AP/AJ/AZ-80		80	20	150		385							
	TC511001AP/AJ/AZ-10		100	25	180		330							
	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	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								
	TC514256APL/AJL/AZL-70	70	20	130	5V ± 10%	440	1.1	20/26/20	Fast Page Mode Low Power Version					
	TC514256APL/AJL/AZL-80	80	20	150		385								
	TC514256APL/AJL/AZL-10	100	25	180		330								
	TC514258AP/AJ/AZ-70	70	25	130	5V ± 10%	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										
TC514266AP/AJ/AZ-70	70	20	130	440										
TC514266AP/AJ/AZ-80	80	20	150	5V ± 10%	385	5.5	20/26/20	Fast Page Mode with Write Per Bit						
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	5V ± 10%	550	2.2	26/20	Fast Page Mode Low Power Version				
	※ TC514100JL/ZL-10		100	25	180		468							
	※ TC514101J/Z-80		80	20	150	5V ± 10%	578	5.5	26/20	Nibble Mode				
	※ TC514101J/Z-10		100	25	180		495							
	※ TC514102J/Z-80		80	20	150	5V ± 10%	550	5.5	26/20	Static Column Mode				
	※ TC524102J/Z-10		100	25	180		468							
	※ TC514400J/Z-80	80	20	150	5V ± 10%	578	5.5	26/20	Fast Page Mode					
	※ TC514400J/Z-10	100	25	180		495								
	※ TC514400JL/ZL-80	80	20	150	5V ± 10%	578	2.2	26/20	Fast Page Mode Low Power Version					
	※ TC514400JL/ZL-10	100	25	180		495								
	※ TC514402J/Z-80	80	20	150	5V ± 10%	578	5.5	26/20	Static Column Mode					
	※ TC514402J/Z-10	100	25	180		495								
	※ TC514410J/Z-80	80	20	150	5V ± 10%	578	5.5	26/20	Fast Page Mode with Write Per Bit					
	※ TC514410J/Z-10	100	25	180		495								