

				Vcc =	Price Each						
Mfr.	Pins	Pkg	Description	5V ±	Mfrs. List No.	Order Code	1+	10+	100+	250+	+
<b>8Mb</b>											
080	ST	40	TSOP	8Mb (1Mb x8) FLASH, 5V only, CMOS memory - 70ns acc (IND TEMP) . . .10%	M29F080D70N6E	<b>SMD</b> 109-9682	196.00	160.00	118.00	--	--
29F080	SPN	40	TSOP	8Mb (1M x 8) FLASH, 5V only, CMOS memory 90ns acc . . . . .10%	AM29F080B-90ED	<b>SMD</b> 120-1511	154.00	141.00	128.00	--	--
29F080	SPN	44	SOIC	8Mb (1M x 8) FLASH, 5V only, CMOS memory 90ns acc . . . . .10%	AM29F080B-90SD	<b>SMD</b> 120-1512	217.00	200.00	181.00	--	--
29F080	ST	40	TSOP	8Mb (1Mb x 8) FLASH, 5V only, CMOS memory - 90ns acc . . . . .10%	M29F080A90N1.	<b>SMD</b> 333-5150	310.00	276.00	252.00	--	--
<b>16Mb</b>											
016	ST	40	TSOP	16 Mb (2Mb x8) FLASH, 5V only, CMOS memory - 70ns acc (IND TEMP) .10%	M29F016D70N6E	<b>SMD</b> 109-9679	253.00	207.00	152.00	--	--
29F016	SPN	48	TSOP	16Mb (2M x 8) FLASH, 5V only, CMOS memory - 90ns acc . . . . .10%	AM29F016D-90ED	<b>SMD</b> 120-1502	285.00	262.00	238.00	--	--
<b>32Mb</b>											
032	ST	40	TSOP	32 Mb (4Mb x8) FLASH, 5V only, CMOS memory - 70ns acc (IND TEMP) .10%	M29F032D70N6E	<b>SMD</b> 109-9680	392.00	320.00	235.00	--	--
29F032	SPN	40	TSOP	32Mb (4MB x 8) FLASH, 5V only, CMOS memory 90ns acc . . . . .10%	AM29F032B-90ED	<b>SMD</b> 120-1503	490.00	451.00	409.00	--	--

**Memory Modules/Non-Volatile RAMs**

**Non-Volatile CMOS RAMs with Battery Back-up**



The ZEROPOWER NVRAM is a non-volatile RAM with internal lithium battery, directly replacing industry standard SRAMs.

**Features:**

- Power-fail control circuit
- Unlimited write cycles
- 10 years of data retention in power absence
- Pin and function compatible with standard SRAMs
- Automatic power-fail chip deselect and write protect

210796

				Vcc =	Price Each					
Pins	Pkg	Description	Mfrs. List No.	Order Code	1+	25+	100+	+	+	
4Z28	28	DIL	SNAPHAT® battery for the M48Z08/18 range	M4Z28-BR00SH1	<b>688-344</b>	292.00	224.00	--	--	--
4Z32	—	—	SNAPHAT® lithium battery (130mAh) for ZEROPOWER® products and NVRAM controllers . . . . .	M4Z32-BR00SH1	<b>334-2268</b>	435.00	333.00	--	--	--
41ST84	16	SOIC	512-bit (64b x 8) Serial RTC with supervisory functions, 4.5 to 5.5V, I <sup>2</sup> C bus compatible, 56 Bytes of general purpose RAM, Century register, IND TEMP . . . . .	M41ST84YMQ6	<b>SMD</b> 415-5725	317.00	300.00	290.00	--	--
41ST85	28	SOIC	512-bit (64b x 8) Serial RTC and NVRAM supervisor, 4.5 to 5.5V, I <sup>2</sup> C bus compatible, 44 Bytes of general purpose RAM, Century register, IND TEMP (requires SNAPHAT® Battery Crystal) . . . . .	M41ST84YMQ6E	<b>SMD</b> 988-2880	132.00	118.00	107.00	--	--
41T00	8	SOIC	Serial access TIMEKEEPER® Real-time Clock/Calendar, 2.0 to 5.5V, I <sup>2</sup> C bus compatible, Y2K compliant, IND TEMP . . . . .	M41T00M6E	<b>SMD</b> 988-2634	76.00	68.00	62.00	--	--
41T11	8	SOIC	512-bit (64b x 8) Serial access TIMEKEEPER® SRAM, 2.0 to 5.5V, I <sup>2</sup> C bus compatible, 56 Bytes of general purpose RAM, Century register, IND TEMP . . . . .	M41T11M6E	<b>SMD</b> 988-2642	85.00	80.00	78.00	--	--
41T11	28	SOIC	512-bit (64b x 8) Serial access TIMEKEEPER® SRAM, 2.0 to 5.5V, I <sup>2</sup> C bus compatible, 56 Bytes of general purpose RAM, Century register, IND TEMP (requires SNAPHAT® Battery & Crystal) . . . . .	M41T11MH6E	<b>SMD</b> 975-5810	239.00	214.00	195.00	--	--
41T56	8	SOIC	512-bit (64b x 8) Serial access TIMEKEEPER® SRAM, I <sup>2</sup> C bus compatible, 56 Bytes of general purpose RAM, Century register, 5.0V ±10%, IND TEMP . . . . .	M41T56M6E	<b>SMD</b> 988-2650	85.00	80.00	78.00	--	--
41T56	28	SOIC	512-bit (64b x 8) Serial access TIMEKEEPER® SRAM, I <sup>2</sup> C bus compatible, 56 Bytes of general purpose RAM, Century register, 5.0V ±10%, IND TEMP (requires SNAPHAT® Battery & Crystal) . . . . .	M41T56MH6	<b>SMD</b> 334-2608	239.00	214.00	207.00	--	--
41T56	28	SOIC	512-bit (64b x 8) Serial access TIMEKEEPER® SRAM, I <sup>2</sup> C bus compatible, 56 Bytes of general purpose RAM, Century register, 5.0V ±10%, IND TEMP (requires SNAPHAT® Battery & Crystal) . . . . .	M41T56MH6E	<b>SMD</b> 988-2669	165.00	147.00	134.00	--	--
41T94	16	SOIC	512-bit (64 x 8) Serial RTC, 44 bytes of general purpose RAM, 2.7 to 5.5V, I <sup>2</sup> C bus compatible, IND TEMP . . . . .	M41T94MQ6.	<b>SMD</b> 415-5750	291.00	276.00	266.00	--	--
41T94	16	SOIC	512-bit (64 x 8) Serial RTC, 44 bytes of general purpose RAM, 2.7 to 5.5V, I <sup>2</sup> C bus compatible, IND TEMP . . . . .	M41T94MQ6E	<b>SMD</b> 109-4273	291.00	260.00	237.00	--	--
48T02	24	DIL	16K (2K x 8) TIMEKEEPER® SRAM - 70ns, 5V +10%/-5% . . . . .	M48T02-70PC1	<b>975-5764</b>	754.00	695.00	684.00	--	--
48T37	44	SOIC	64K (8K x 8) TIMEKEEPER® SRAM - 70ns, 5V ±10% (requires SNAPHAT® battery & crystal) . . . . .	M48T37Y-70MH1	<b>SMD</b> 334-2530	952.00	878.00	848.00	--	--
48T37	44	SOIC	64K (8K x 8) TIMEKEEPER® SRAM - 70ns, 5V ±10% (requires SNAPHAT® battery & crystal) . . . . .	M48T37Y-70MH1E	<b>SMD</b> 988-2626	693.00	618.00	559.00	--	--
48T58	28	SOIC	64K (8K x 8) TIMEKEEPER® SRAM - 70ns, 5V ±10% (requires SNAPHAT® battery & crystal) . . . . .	M48T58Y-70MH1	<b>SMD</b> 334-2487	611.00	545.00	492.00	--	--
48T58	28	SOIC	64K (8K x 8) TIMEKEEPER® SRAM - 70ns, 5V ±10% (requires SNAPHAT® battery & crystal) . . . . .	M48T58Y-70MH1E	<b>SMD</b> 988-2600	444.00	397.00	358.00	--	--
48T58	28	DIL	64K (8K x 8) TIMEKEEPER® SRAM - 70ns, 5V ±10% . . . . .	M48T58Y-70PC1.	<b>334-2499</b>	1,285.00	1,185.00	1,144.00	--	--
48T58	28	DIL	64K (8K x 8) TIMEKEEPER® SRAM - 70ns, 5V ±10% . . . . .	M48T58Y-70PC1	<b>975-5772</b>	1,285.00	1,116.00	1,017.00	--	--
48T59	28	SOIC	64K (8K x 8) TIMEKEEPER® SRAM - 70ns, 5V ±10%, Watchdog, reset O/P, Alarms, Battery low Flag, Wake-up (requires SNAPHAT® Battery & Crystal) . . . . .	M48T59Y-70MH1	<b>SMD</b> 334-2505	728.00	632.00	624.00	--	--
48T59	28	SOIC	64K (8K x 8) TIMEKEEPER® SRAM - 70ns, 5V ±10%, Watchdog, reset O/P, Alarms, Battery low Flag, Wake-up (requires SNAPHAT® Battery & Crystal) . . . . .	M48T59Y-70MH1E	<b>SMD</b> 988-2618	518.00	463.00	418.00	--	--
48T59	28	DIL	64K (8K x 8) TIMEKEEPER® SRAM - 70ns, 5V ±10%, Watchdog, reset O/P, Alarms, Battery low Flag, Wake-up . . . . .	M48T59Y-70PC1	<b>975-5780</b>	1,424.00	1,314.00	1,268.00	--	--
48T86	28	DIL	5V PC Real-time Clock, Drop-in replacement for PC Clock/Calendar, Pin and functionally compatible with DS12887, 1Kb (128bx8). Requires SNAPHAT® Battery & crystal . . . . .	M48T86MH1	<b>334-2621</b>	204.00	193.00	176.00	--	--
48T86	28	DIL	5V PC Real-time Clock, Drop-in replacement for PC Clock/Calendar, Pin and functionally compatible with DS12887, 1Kb (128bx8). Requires SNAPHAT® Battery & crystal . . . . .	M48T86MH1E	<b>988-2677</b>	179.00	160.00	146.00	--	--
48T128	32	DIL	1M (128K x 8) TIMEKEEPER® SRAM - 70ns, 5V ±10% (integral Battery & Crystal) . . . . .	M48T128Y-70PM1.	<b>334-2542</b>	2,434.00	2,169.00	2,132.00	--	--
48T128	32	DIL	1M (128K x 8) TIMEKEEPER® SRAM - 70ns, 5V ±10% (integral Battery & Crystal) . . . . .	M48T128Y-70PM1	<b>975-5799</b>	2,291.00	2,041.00	1,895.00	--	--
48T201	44	SOIC	TIMEKEEPER® Controller for up to 8 x 512K LPSRAMs, 70ns, 5V ±10%, Watchdog, Reset O/P, Alarms, Battery Low flag, Square Wave O/P, Century register (requires SNAPHAT® Battery and Crystal) . . . . .	M48T201Y-70MH1	<b>SMD</b> 334-2244	593.00	562.00	538.00	--	--
48T201	44	SOIC	TIMEKEEPER® Controller for up to 8 x 512K LPSRAMs, 70ns, 5V ±10%, Watchdog, Reset O/P, Alarms, Battery Low flag, Square Wave O/P, Century register (requires SNAPHAT® Battery and Crystal) . . . . .	M48T201Y-70MH1E	<b>SMD</b> 115-9688	593.00	529.00	478.00	--	--
48T512	32	DIL	4M (512K x 8) TIMEKEEPER® SRAM - 70ns, 5V ±10% (integral Battery & Crystal) . . . . .	M48T512Y-70PM1	<b>975-5802</b>	4,457.00	4,082.00	3,790.00	--	--
48Z02	24	DIL	16K (2K x 8) ZEROPOWER® SRAM - 70ns, 5V +10%/-5% . . . . .	M48Z02-70PC1.	<b>334-2293</b>	467.00	443.00	424.00	--	--
48Z02	24	DIL	16K (2K x 8) ZEROPOWER® SRAM - 70ns, 5V +10%/-5% . . . . .	M48Z02-70PC1	<b>975-5748</b>	467.00	417.00	377.00	--	--
48Z02	24	DIL	16K (2K x 8) ZEROPOWER® SRAM - 150ns Access . . . . .	M48Z02-150PC1	<b>975-6400</b>	577.00	526.00	448.00	--	--
48Z02	24	DIL	16K (2K x 8) ZEROPOWER® SRAM - 200ns Access . . . . .	M48Z02-200PC1	<b>975-6582</b>	548.00	500.00	426.00	--	--
48Z08	28	DIL	64K (8K x 8) ZEROPOWER® SRAM - 100ns Access VCC=4.75V to 5.5V . . . . .	M48Z08-100PC1	<b>975-6418</b>	1,022.00	824.00	707.00	--	--
48Z18	28	DIL	64K (8K x 8) ZEROPOWER® SRAM - 100ns Access VCC=4.5V to 5.5V . . . . .	M48Z18-100PC1.	<b>504-981</b>	758.00	700.00	688.00	--	--
48Z18	28	DIL	64K (8K x 8) ZEROPOWER® SRAM - 100ns Access VCC=4.5V to 5.5V . . . . .	M48Z18-100PC1	<b>975-6426</b>	844.00	750.00	635.00	--	--
48Z35	28	SOIC	64K (8K x 8) ZEROPOWER® SRAM - 100ns Access VCC=4.5V to 5.5V . . . . .	M48Z35Y-70MH1E	<b>SMD</b> 988-2588	527.00	471.00	425.00	--	--
48Z35	28	SOIC	64K (8K x 8) ZEROPOWER® SRAM - 100ns Access VCC=4.5V to 5.5V . . . . .	M48Z35Y-70MH6	<b>SMD</b> 334-2335	855.00	742.00	676.00	--	--
48Z35	28	SOIC	64K (8K x 8) ZEROPOWER® SRAM - 100ns Access VCC=4.5V to 5.5V . . . . .	M48Z35Y-70MH6E	<b>SMD</b> 988-2596	622.00	555.00	502.00	--	--
48Z35	28	DIL	256K (32K x 8) ZEROPOWER® SRAM - 70ns, 5V ±10% . . . . .	M48Z35Y-70PC1	<b>975-5756</b>	936.00	813.00	741.00	--	--
48Z58	28	DIL	64K (8K x 8) ZEROPOWER® CMOS SRAM - 70ns Access, VPFD <4.75V . . . . .	M48Z58-70PC1	<b>975-6590</b>	770.00	643.00	515.00	--	--
48Z58	28	DIL	64K (8K x 8) ZEROPOWER® CMOS SRAM - 70ns Access, VPFD <4.5V . . . . .	M48Z58Y-70PC1	<b>975-6604</b>	770.00	643.00	515.00	--	--
48Z128	32	DIL	1M (128K x 8) ZEROPOWER® CMOS SRAM - 70ns Access . . . . .	M48Z128-70PC1.	<b>395-6519</b>	1,351.00	1,247.00	1,203.00	--	--
48Z129V32	DIL		1M (128K x 8) ZEROPOWER® SRAM - 70ns, 3.3V ±10%, Reset O/P, Battery Low O/P . . . . .	M48Z129V-85PM1.	<b>334-2451</b>	1,740.00	1,580.00	1,524.00	--	--
48Z129V32	DIL		1M (128K x 8) ZEROPOWER® SRAM - 70ns, 3.3V ±10%, Reset O/P, Battery Low O/P . . . . .	M48Z129V-85PM1	<b>109-4274</b>	1,638.00	1,487.00	1,355.00	--	--

Semiconductors - Integrated Circuits

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Compliant Non-compliant Limited stock - RoHS replacement available

**RoHS**