

2 K × 8 High Speed CMOS SRAM

Short description. Please refer to the full datasheet for detailed technical information.

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Introduction

The HM 65728B is a high speed CMOS static RAM organized as 2048 × 8 bits. It is manufactured using MHS's high performance CMOS technology.

Access times as fast as 25 ns are available with maximum power consumption of only 600 mW.

The HM 65728B features fully static operation requiring no external clocks or timing strobes. The automatic power-down feature reduces the power consumption by 80 % when the circuit is deselected.

Easy memory expansion is provided by an active low chip select (\overline{CS}) and active low output enable (\overline{OE}) and three state drivers.

All inputs and outputs of the HM 65728 are TTL compatible and operate from single 5V supply thus simplifying system design.

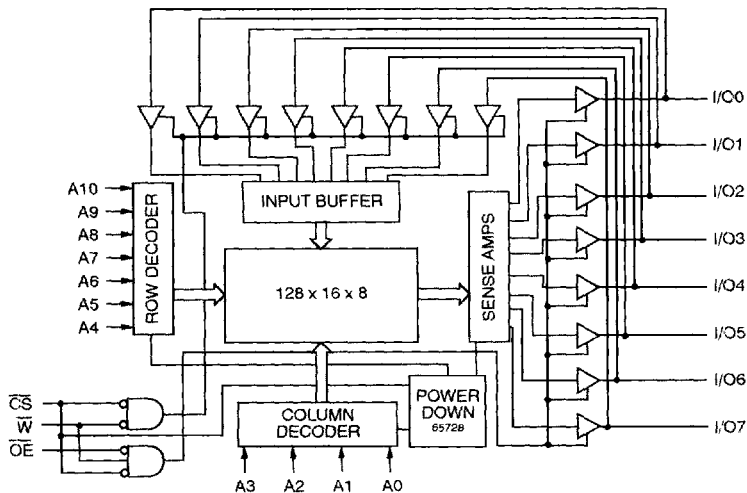
The HM 65728B is 100 % processed following the test methods of MIL STD 883 and/or ESA/SCC 9000 making it ideally suitable for military/space applications that demand superior levels of performance and reliability.

Features

- Fast Access Time
Commercial : 25/35/45/55 ns (max)
Military : 25/35/45/55 ns (max)
- Low Power Consumption Active : 550 mW (max)
Standby : 110 mW (max)
- Wide Temperature Range : -55°C to + 125°C
- 300 and 600 Mils Width Package
- TTL Compatible Inputs and Outputs
- Asynchronous
- Capable of Withstanding Greater than 2000 V Electrostatic Discharge
- Single 5 Volt Supply

Interface

Block Diagram



Ordering Information

PACKAGE		DEVICE TYPE	GRADE	LEVEL
HM	3	65728B	H	-5 : R
0 - Chip form		8 k × 8 high speed static RAM		-2 : Military
1 - Ceramic 24 pins				-5 : Commercial
3 - Plastic 24 pins 300 mils				-6 : 100% 25°C Probe
3E - Plastic 24 pins 600 mils				-9 : Industrial
4 - LCC 32 pins			H = 25 ns	-A : Automotive
T - SOIC 24 pins 300 mils			K = 35 ns	/883 : MIL STD 883 Class B
			M = 45 ns	DB : Dice Military program
			N = 55 ns	R : Tape & Reel option
				RD : Tape & Reel/Dry pack option
				D : Dry pack option

Military Version

The following table gives package/access time/process flow available combinations

Temp. range	Packages	Access Time (ns)				Std process 65728B
		25	35	45	55	Mil flows
M	1	•	•	•	•	•
	4	•	•	•	•	•
	0	X	X	X	X	X

• = product in production

X = call sales office for availability

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