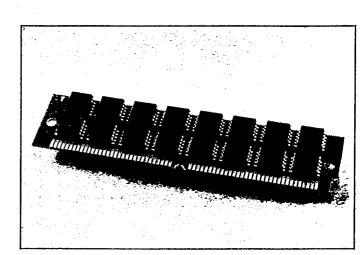


AK581024W 1,048,576 x 8 bit CMOS **Dynamic Random Access Memory**

DESCRIPTION

The Accutek AK581024W high density memory module is a random access memory organized in 1 Meg x 8 bit words. The assembly consists of eight standard 1 Meg x 1 DRAMs in plastic leaded chip carriers (SOJ) mounted to a printed wiring board. The module is configured as a leadless 64 pad SIMM. This packaging approach provides a 6 to 1 density increase over standard DIP packaging.

The operation of the AK581024 is identical to eight 1 Meg dynamic RAMs. The D, Q and WE lines for each DRAM are brought out to separate pins. CAS and RAS control are common for all DRAMs. The separate data lines allow the use of Read-Write, Read-Modify-Write and Late-Write modes. The AK581024 is ideally suited for microprocessor cycle times greater than 40 MHz by allowing the use of separate data in and data out memory busses to perform read and write operations simultaneously.



FEATURES

- •1,048,576 x 8 bit organization
- Optional 64 Pad .050 Pitch Edge Connect or 64 Pin leaded SIP (Single In-Line Package)
- •JEDEC approved pinout
- Each device (data bit) has separate D, Q and WE lines with common RAS and CAS control
- CAS-before-RAS refresh
- •Read-Write, Read-Modify-Write operation

- Power 3.08 Watt Max Active (80 nS)
- 2.64 Watt Max Active (100 nS)
- 2.20 Watt Max Active (120 nS)
- 44 mWatt Max Standby
- Operating free air temperature 0°C to 70°C
- Upward compatible with AK584096W

PIN NOMENCLATURE

D ₁ - D ₈	Data In	
Q1 - Q8	Data Out	
A ₀ - A ₉	Address Inputs	
CAS	Column Address Strobe	
i Iras	Rux Andress Strebe	
VIE - WE	Write Enable	
Vcc	5v Supply	
Vss	Ground	
NC	No Connection	

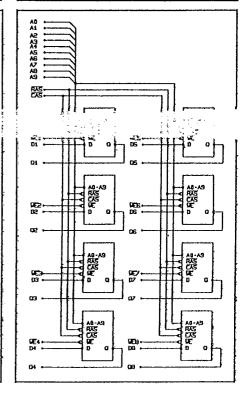
MODULE OPTIONS

Leadless SIMM: AK581024W .050 inch Edge Connect Single In-Line Memory Module

PIN ASSIGNMENT

A0 9 A1 11 Q2 13	NC 2 Vcc 4 D1 6 WE1 8 NC 10 D2 12 WE2 14	
Q3 21 A4 23 A5 25 Q4 27 A6 29 A7 31	WE2 14 116 116 116 116 116 116 116 116 116 1	200000 000000 200000 000000 10000 00000
Q5 33 A8 35 A9 37 NC 39 Q6 41 NC 43 GND 45 Q7 47	D5 32 WE5 34 NC 36 NC 38 D6 40 WE6 42 NC 44 D7 46 WE7 48	
Q8 51 NC 53 RAS 55 NC 57 NC 59 Vcc 61	D ₀ 50 WE ₈ 52 NC 54 NC 56 NC 58 NC 60 Vcc 62 ND 64	\$ O

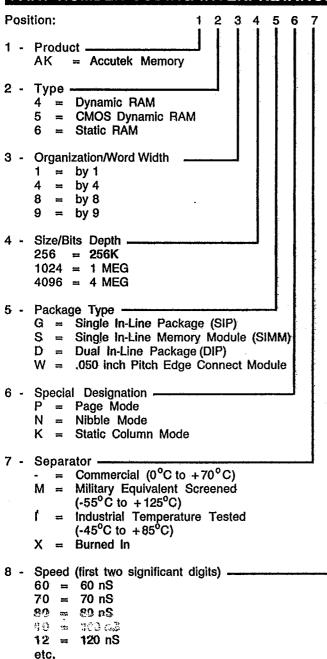
FUNCTIONAL DIAGRAM



ORDERING INFORMATION

PART NUMBER CODING INTERPRETATION

39E D



The numbers and coding on this page do not include all variations available, but are shown as examples of the most widely used variations. Contact Accutek if other information is required.

EXAMPLES:

AK581024WP-80

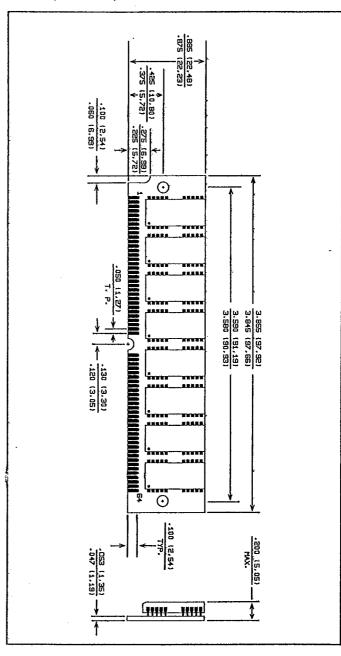
1 Meg x 8 Dynamic RAM, .050 Edge Connect, Page Mode, Commercial, 80 nS Access Time

AK581024WK-10

1 Meg x 8 Dynamic RAM, .050 Edge Connect, Static Column Mode, Commercial, 100 nS Access Time

MECHANICAL DIMENSIONS

inches (millimeters)





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