



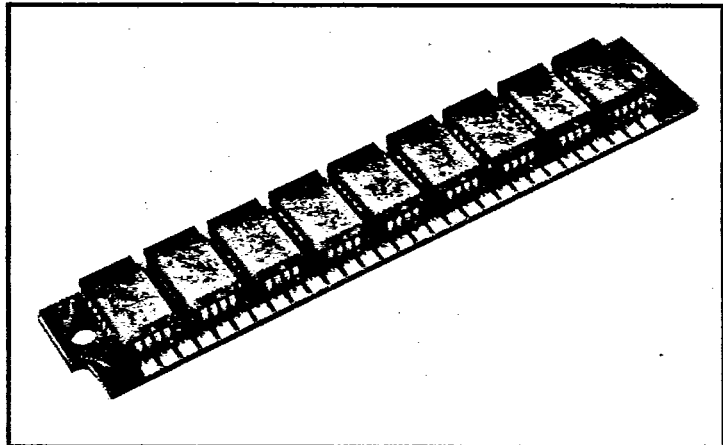
**ACCUTEK
MICROCIRCUIT**

AK49256S/AK49256G
262,144 x 9 bit NMOS
Dynamic Random Access Memory

DESCRIPTION

The Accutek AK49256 high density memory module is a random access memory organized in 256K x 9 bit words. The assembly consists of nine 256K x 1 DRAMs in plastic leaded chip carriers (PLCC) mounted to a printed circuit board. The module can be configured as a leadless 30 pad SIMM or a leaded 30 pin SIP. This packaging approach provides a 6 to 1 density increase over standard DIP packaging.

The operation of the AK49256 is identical to nine 256K dynamic RAMs. For the lower eight bits, the data input is tied to the data output and brought out separately for each device, with common RAS, CAS and WE control. This common I/O feature dictates the use of early-write cycles to prevent contention of D and Q. Since the Write-Enable (WE) signal must always go low before CAS in a write cycle, Read-Write and Read-Modify-Write operation is not possible. For the ninth bit, the data input (D₉) and data output (Q₉) pins are brought out separately and controlled by a separate CAS₉ for that bit. Bit nine is generally used for parity.



FEATURES

- 262,144 x 9 bit organization
- Optional 30 Pad SIMM (Single In-line Memory Module) or 30 Pin leaded SIP (Single In-line Package)
- JEDEC approved pinout
- Common CAS, RAS and WE control for eight common D and Q lines
- Separate CAS control for one separate pair of D and Q lines
- 3.15 Watt active and 205 mW standby (max)
- Operating free air temperature: 0°C to 70°C
- Upward compatible with AK491024

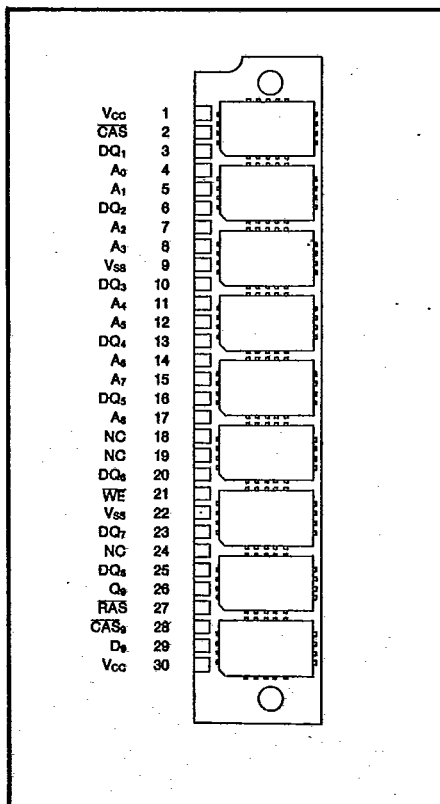
PIN NOMENCLATURE

DQ ₁ -DQ ₈	Data In/Data Out
D ₉	Data In - Parity Bit
Q ₉	Data Out - Parity Bit
A ₀ - A ₈	Address Inputs
CAS	Column Address Strobe
RAS	Row Address Strobe
WE	Write Enable
Vcc	5v Supply
Vss	Ground
NC	No Connection

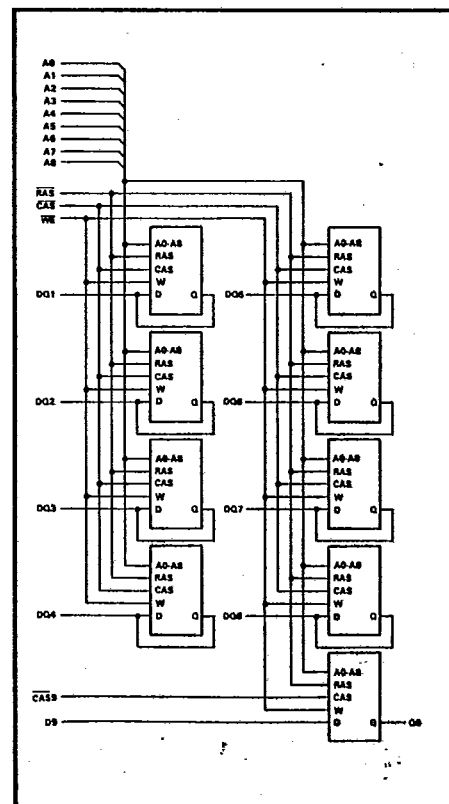
MODULE OPTIONS

Leadless SIMM: AK49256S Single Inline Memory Module
Leaded SIP: AK49256G Single Inline Package

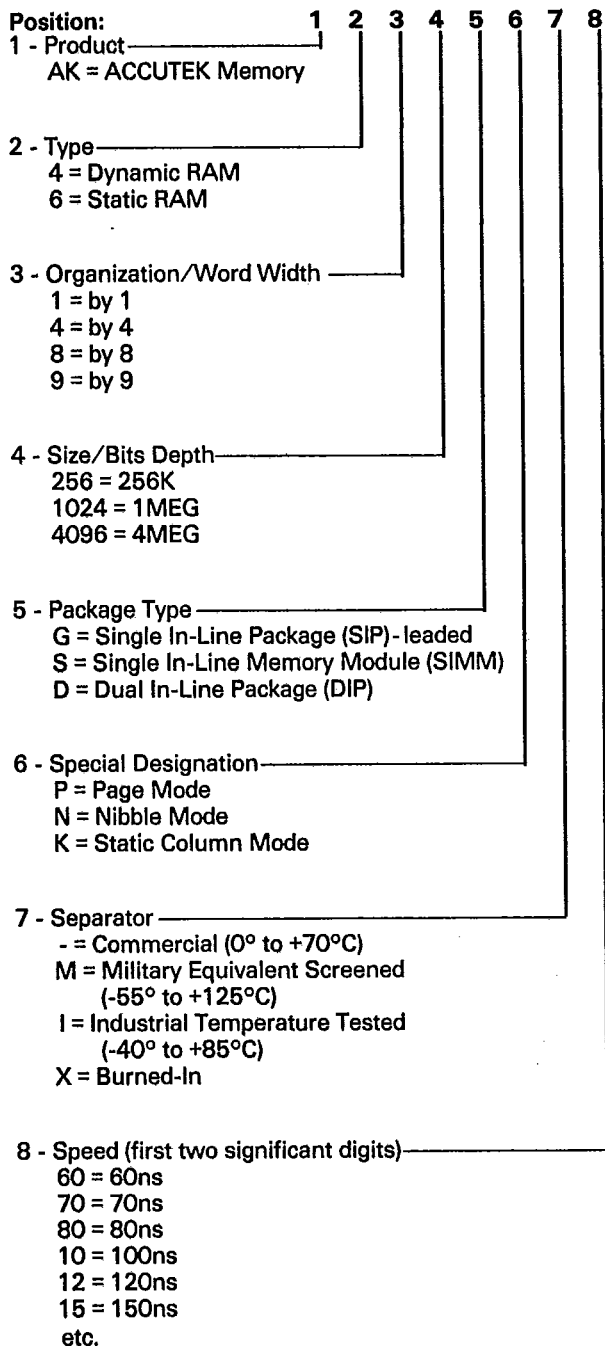
PIN ASSIGNMENT



FUNCTIONAL DIAGRAM



**ORDERING INFORMATION
PART NUMBER CODING INTERPRETATION**



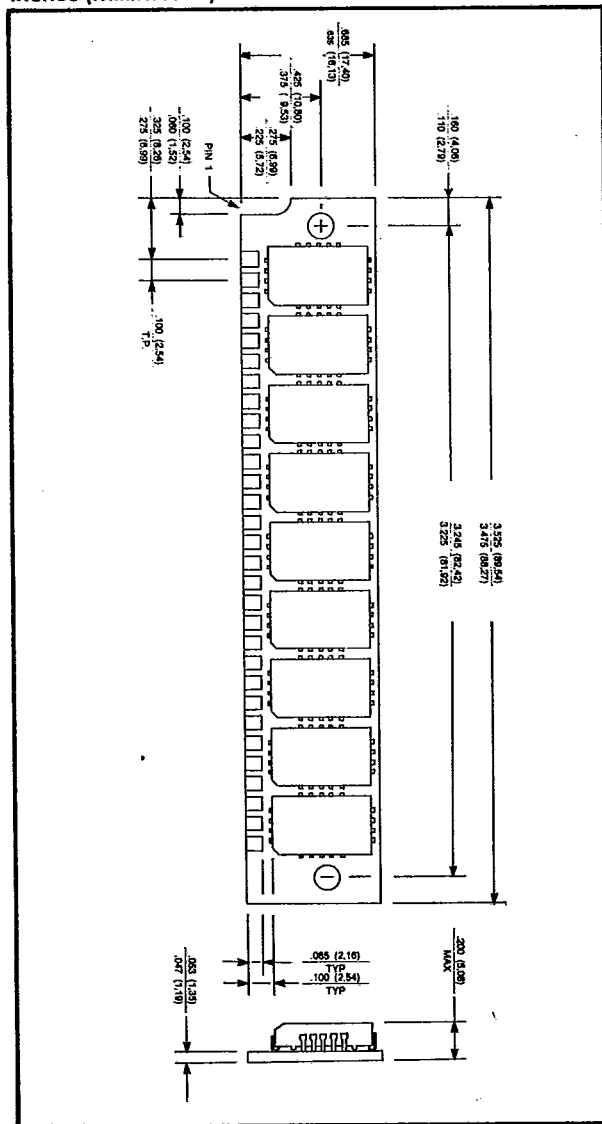
The numbers and coding combinations on this page do not include all variations available, but are shown as examples of most widely used variations. Contact Accuthek if other information is required.

EXAMPLES:

AK48256SP-12
256K x 8 Dynamic RAM, SIMM, Page Mode, Commercial, 120nS Access Time

AK49256GP-10
256K x 9 Dynamic RAM, leaded SIP, Page Mode Commercial, 100nS Access Time

**MECHANICAL DIMENSIONS
inches (millimeters)**



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