

Low Power and Reliability.

Fast static memories with low power, reliable RAM's.

A battery back-up, too, to
preserve memory during power failures.

4KRA Static Memory Module



This static memory does not require periodic refreshing, thus it can run at the processor's maximum speed. Compare this to dynamic memories, requiring at least 32,000 refresh periods per second. During such periods, data cannot be written or read from the memory, while the computer sits idle in a "wait" condition. Static memories eliminate this delay.

The RAM's used in the 4KRA typically require one-half the power of the standard

2102A-4 or 8101 type RAM's. Even under the worst case conditions, the 4KRA RAM's draw only 30% more than any currently available dynamic memory. However, the low power feature does not mean decreased reliability. Each RAM is manufactured to military specification MIL STD-883C.

Our module draws so little standby current, memory can actually be maintained using "D" size flashlight batteries. This allows long term retention of data, even under possible power failure. Recharging circuitry and a battery connector are resident on the board.

Specifications:

Maximum Capacity:

4096 eight-bit words

Static

Operating

Mode.

Access

Time:

520 nano-

seconds, worst case maximum

Cycle Time: 520 nano-

seconds maximum, read or

write

Bus Pinout: Plug-in compatible

with Sol System, Altair 8800 and IMSAI 8080 bus.

Edge

Contacts:

Gold-plated, 100 pins (dual 50) on .125" centers

Power

Requirements, Operating:

+7.5 to +10VDC at 1.0A maximum

 $(0^{\circ}C)$, 0.8 typical at 25°C.

Power

Requirements, +1.6 to 2.5VDC Standby:

at 0.5A maximum worst case, 0.4A typical

Dimensions:

5.3" x 10.0" (13.46 cm x)25.4cm)

