OCTAGON SYSTEMS®

- Embedded Rugged Computers
- -40° to +85°C
- Embedded Operating Systems
- COTS–high reliability

X–SRAM–2M card from the XBLOK™ series

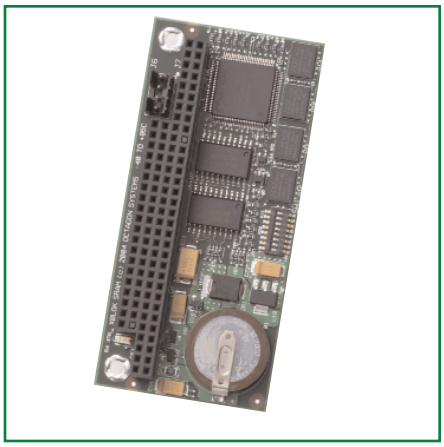
The X–SRAM–2M is a low–cost expansion card that provides 2 MB of battery–backed SRAM. It allows full–speed reading and writing of data in critical applications where flash, hard drive or other mass storage devices are too slow.

The SRAM data is secured by an AT–style, 3.6V high–energy lithium battery. Internal circuits monitor Vcc for an out–of–tolerance condition. If such a condition occurs the battery immediately connects to the SRAM, and write protection is unconditionally implemented to prevent loss of data. If external power is removed from the card, the battery will protect the data for approximately 1½ years; under normal operating conditions the battery life is about 12 years.

The X–SRAM–2M contains two auto–incrementing, 21–bit address registers. One register points to the next available memory location available for WRITE operations, and the other one points to the next available memory location available for READ operations. If ISA RESET activates or the board loses power, these registers retain their data. Access is also random by overwriting the incrementing registers.

The X–SRAM–2M comes with drivers for DOS and Linux for fast integration in your PC/104 system.

XBLOK form factor



The XBLOK form factor is 44 percent the size of a standard PC/104 module. XBLOK cards use either the PC/104 connector for 8– or 16–bit access to the ISA Bus, or the PC/104–*Plus* connector for 32–bit access to the PCI Bus. This allows designers to mix and match I/O functions while only taking up one stack layer. The X–SRAM–2M uses the 8–bit PC/104 connector. This compact interface board is one of many Octagon products that provide specific functions for embedded PC/104 and PC/104–Plus systems.

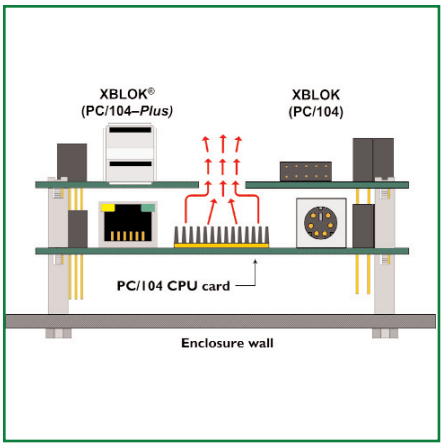


Diagram shows mounting scheme for using XBLOKs in PC/104 or PC/104–Plus systems.

Octagon products are designed and manufactured with exacting specifications under the supervision of a quality management system that is ISO 9001–2000 certified. The X–SRAM–2M will withstand high shock and vibration, and operates in temperature ranges from –40° to +85° C. This rugged expansion card will provide years of reliable service in the most challenging environments.

6510 W. 91st Avenue • Westminster CO 80031 • 303–430–1500
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Features

SRAM:

- 2 MB of SRAM.
- Contains two auto–incrementing 21–bit registers for Read/Write
- Power–monitoring bits indicate if power black/brownout conditions occurred

PC/104 INTERFACE:

- Connects to the 8–bit PC/104 header

BASE ADDRESS:

- DIP switch–selectable ISA base addresses of 100h, 110h, 120h, 130h, etc. through 3F0h, in 16–byte increments

BATTERY BACKUP:

- AT–style high–energy lithium battery

ENVIRONMENTAL:

- –40° to 85° C operating
- –55° to 95° C nonoperating
- 5% to 95%, RH, noncondensing
- Up to 40g shock, 3 axis
- Up to 5g vibration, 3 axis
- Size: 3.55" x 1.65" x 0.43", XBLOK form factor
- Mounting holes and connector are PC/104 compliant
- 5V ±5%, drawn from PC/104 connector; 9.65 mA max.

ORDERING INFORMATION

#6481 X–SRAM–2MB SRAM card

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