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Find the *Abaco Systems / SBS / Greenspring IP-NVRAM-1M* at our website: ***Click HERE***

SBS Technologies, Inc.

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IP-NVRAM

One Megabyte Non-Volatile Memory IndustryPack®

Application Information

IP-NVRAM belongs to the IndustryPack family of modular components. It provides a convenient and reliable way to implement non-volatile memory up to one megabyte in a single-high IndustryPack®. Eight TSOP 128K x 8-bit low power SRAM chips and a lithium battery provide 10 years (at room temperature) of maintenance-free operation. The IP-NVRAM powers-up ready to go. No software initialization is required.

Four memory configurations are available on the IP-NVRAM: 256 Kbytes, 512 Kbytes, 768 Kbytes, and one megabyte. The one megabyte configuration and the 256 Kbyte configuration are standard. The other two configurations are available via special order.

Access to the IP-NVRAM occurs in the IndustryPack memory space. A unique ID PROMS identifies the IP-NVRAM. Users or systems integrators may add information to the ID PROMs to indicate user-specific information.

All ICs are surface mounted for maximum reliability. The IP has no shunts (jumpers), but it does have three test points that may be used to measure battery voltage and standby current drain. These test points are accessible when the IndustryPack is installed in a carrier.

IP-NVRAM is ideal for system configuration, data logging, software development, data buffering, and other instrumentation and OEM equipment functions.

The IP-NVRAM conforms to the IndustryPack Interface Specification 0.6, guaranteeing compatibility with multiple IP carrier boards.

Features

- One Megabyte of Non-volatile memory on a single-wide IndustryPack
- No Software Initialization required
- Also available with reduced memory capacities

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Specifications

Form Factor	Single-wide Type I IndustryPack
Memory Capacity	256 Kbytes, 1 Mbyte according to order option
IndustryPack Wait States	One wait state
Software Initialization	None
Memory Chips	100 ns 128K X 8 TSOP SRAM, low power
Battery Size, Type	DL2450, Lithium/Manganese Dioxide
Battery Capacity	500 mAH
Battery Life	10 years typical at 25C
Battery Maintenance	Battery is permananently installed but may be replaced by the factory or by a qualified technician in the field.
Standby Current	4.1 µA typical at 25C. 24 µA typical at 40C 80 µA typical at 60C.
I/O Access	All I/O lines are no-connect
Dimensions	1.8 inches x 3.9 inches
Power Requirements	+5 VDC, 325 mA typ operating
Environmental	Operating temperature: 0 to 60°C Humidity: 5 to 95% non-condensing Storage: –10 to +85°C

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Ordering Information

IP-NVRAM-256K	Non-Volatile Memory IndustryPack with 256 Kbytes memory
IP-NVRAM-1M	Non-Volatile Memory IndustryPack with 1 Mbyte memory
EKIP50-FLASH	Engineering kit for IP-NVRAM. Contains: Printed hardware user manual Bill of Materials Board Schematics Assembly Diagram

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