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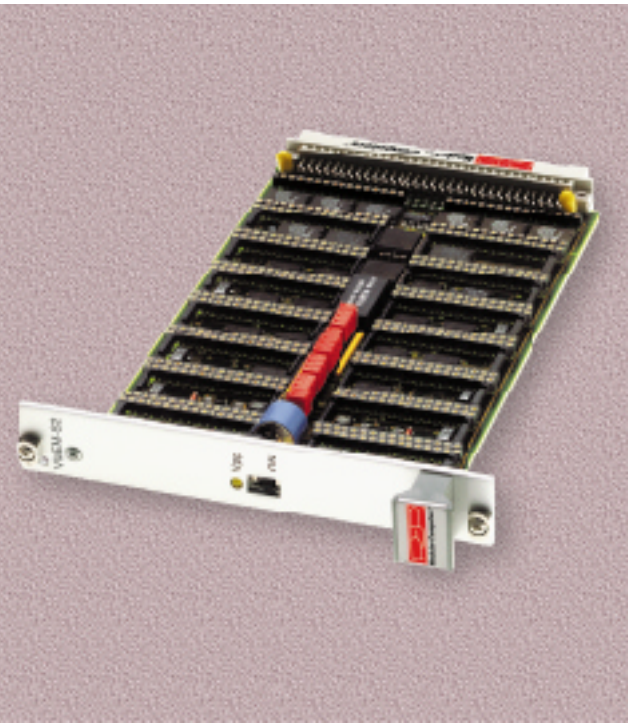
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VMEM-S2

8 MByte Memory Board for VMEbus Operation



The VMEM-S2 is a memory module with a maximum capacity of 8 MBytes in 3U form-factor.

Sixteen 32-pin sockets grouped in two independent memory banks may be configured with CMOS SRAM, EPROMs, FLASH devices or a combination of these. Data loss due to power failure is prevented by an on-board lithium battery or the VME +5V STDBY line. On-board logic allows access to the memory banks in times <100ns and <200ns with each bank being individually selected.

Accidental erasure of SRAM and FLASH units is avoided through software write protection with additional protection being provided for FLASH devices via a switch on the front-panel.

Memory	2..8 MByte (in 16x32-pin sockets) in 2 independent banks SRAM 128 kByte x 8, 512 kByte x 8 EPROM 128 kByte x 8, 256 kByte x 8, 512 kByte x 8 FLASH 128 kByte x 8, 256 kByte x 8, 512 kByte x 8
Access Time	Each memory bank can be configured individually by jumper (< 100ns, < 200ns)
VME Interface	A24/D16, A16/D16 VMEbus slave Jumper selectable base address
Data Retention	Selected by jumper either lithium battery (data retention typically 300 days) or VMEbus +5V STDBY
Front Panel	FLASH write protection switch
Common	Supply current 180mA (typ.) Temp. ranges 0ºC to +70ºC, -40ºC to +85ºC (optional) Humidity 5% to 95% non-condensing Board Size 100mm x 115mm, 3U form-factor Weight 243g (8 MByte SRAM)

Typical applications can include hard disk replacement in harsh environments where adverse temperature and vibration make it unsuitable to use conventional spinning memory devices.

Also, industrial situations requiring frequent data transfer (such as process parameters) can benefit from this versatile memory board.

Product	Description	Order No.
VMEM-S2	Basic module with lithium battery, front-panel, write-protect switch, without memory	2235
VMEM-S2	As order number 2235 but fitted with 2 MByte SRAM (16 x 128 kByte x 8)	2244
VMEM-S2	As order number 2235 but fitted with 8 MByte SRAM (16 x 512 kByte x 8)	2249
VMEM-S2	As order number 2235 but fitted with 2 MByte FLASH (16 x 128 kByte x 8)	2250
VMEM-S2	As order number 2235 but fitted with 1 MByte SRAM (8 x 128 kByte x 8) & 1 MByte FLASH (8 x 128 kByte x 8)	2252
VMEM-S2	As order number 2235 but fitted with 2 MByte SRAM (16 x 128 kByte x 8) & 1 MByte FLASH (8 x 128 kByte x 8)	14301

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Publication Number AB 16424 DS-0997

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