



Merlin VME Sales

9422 CONDUCTION COOLED ANALOG INPUT MODULE

SPECIFICATIONS

Number of Analog Input Channels: 32 Differential
Noise floor: at least -120dBv per root Hz over 100 kHz bandwidth
Channel Resolution: 16 bits
Conversion Rate: 300ksa/s
Clock may be supplied on board or from external source
Spurious Free Dynamic Range -83dBv
Digital Data Format: 16 bits 2's complement
Input Ranges: user specified
Input Impedance: > 1Mohm

VME COMPLIANCE

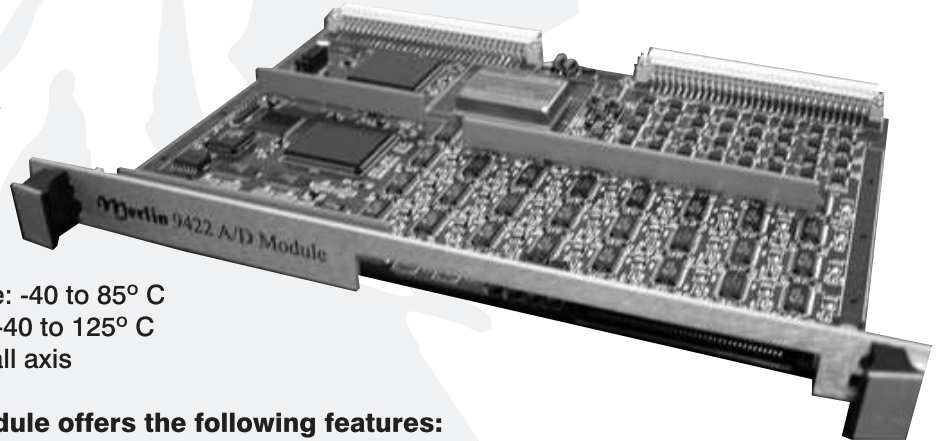
Meets VME Specifications revision C.1 IEEE Std.1014-1987
A16:D32 DTB Slave
Address modifier code 29 or 2D HEX
Short I/O Space covering 256K consecutive byte locations, base address configurable within 64K I/O Space
Board size: 6U

Power Requirements

+5 Volts @ 500mA
+12 Volts @ 400mA
-12 Volts @ 400mA

Environmental

Operating Temperature: -40 to 85° C
Storage Temperature: -40 to 125° C
Shock: 25g, 11ms on all axis



The 9422 Analog Module offers the following features:

- Conduction-cooled version IAW IEEE 1101.2
Data from the A/D converters is available through both the external FPDP interface and the VMEbus.
- Low power dissipation. During operation, the board requires less than 15 watts.
- All 32 channels are simultaneously sampled. Throughput is 300 kHz per channel.
Up to 8 boards may be synchronized and share the same FPDP interface. The user need only write the ID byte and Channel byte to the appropriate control registers. Multiple units appear as a single unit on the FPDP interface.

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