



Merlin VME Sales

9622 SYNCHRO/RESOLVER TO DIGITAL MODULE

SPECIFICATIONS

Number Channels: 6

Channel Resolution: Programmable for either 10,12,14 or 16 bits

Accuracy: ± 3 arc minutes for 16 bit resolution

± 6 arc minutes for 14 bit resolution

Input Ranges: 11.8VL-L or 90VL-L

Tracking Rate: 5 rps for 16 bit resolution

25 rps for 14 bit resolution

Input Impedance: 40K minimum

VME Compliance

Meets VME Specifications revision C.1 IEEE Std.1014-1987

A16:D16 DTB Slave or A24:D16 DTB Slave

Address modifier code 29, 2D, 39, or 3D HEX

Short I/O or Standard I/O space covering 256K consecutive byte locations, base address configurable within 64K I/O Space or 16M I/O Space.

Board size: 6U

Power Requirements

+5 Volts @ 400mA

+12 Volts @ 125mA

Environmental

Operating Temperature: -10 to 70° C

Storage Temperature: -25 to 125° C

Shock: 10g, 11ms on all axis

Weight:13 oz



The 9622 Synchro/Resolver to Digital Module offers the following features:

- The register map and software interface may be ordered so that it is compatible with existing products from VMIC, Transmagetics, CSI, and ILC Data Device Corp.
- The user may enable and disable interrupts in software that will be driven when a loss of signal or reference is detected.
- From panel LED's inform the user when the Reference Signals are present.
- A self- test feature may be activated in software that will throw solid state switches to an internal angle from a D/S Converter.
- An onboard frequency detector for each channel configures the module for either 60 or 400 Hz operation. Other frequencies may be supported upon request.
- Synchro inputs are available via a front panel connector of the P2 connector on the VMEbus.
- Optical isolation offering 1500V isolation is used instead of the traditional Transformer schemes typically offering only 500V isolation.
- The unit uses solid state instead of hybrid modules resulting in a higher mean time between failure and shorter lead times.

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