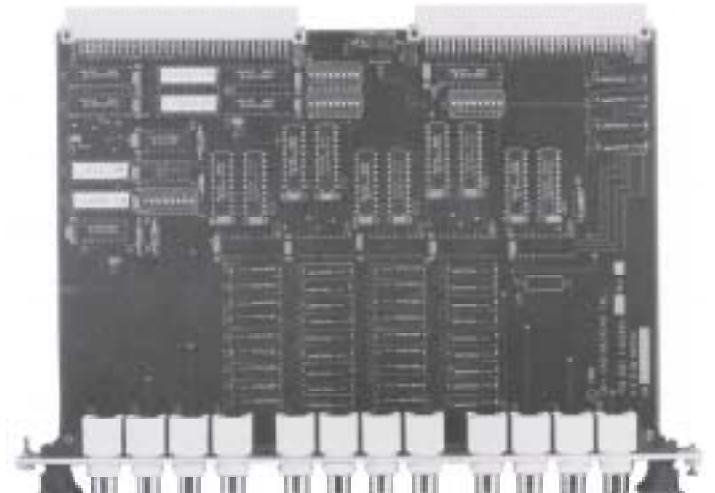


# Switching Matrix For the VMEbus Model HF4x8

The HF4x8 is a VMEbus compatible 100 MHz switching matrix with comprehensive Built-In-Test Equipment (BITE) capabilities. Multiple modules may be joined in tree fashion via the top edge BNC connectors to create 8x8, 8x16, 4x16 or 4x32 configurations (4 signal highways maximum), maintaining the 100 MHz bandwidth. Modules may be connected via the P2 connector to create 8x16, 8x24, 8x32, 8x40, etc. configurations (4 signal highways maximum at P2 with stub disconnect relays), with some decrease in bandwidth. See Application Notes for details.



## SPECIFICATIONS

### Characteristic Impedance

50  $\Omega$

### Bandwidth

100 MHz

### Isolation

>40 db @100 MHz

>60 db @ 10 MHz

### Insertion Loss

<1.0 db @ 100 MHz

<0.2 db @ 10 MHz

### Signal Connections

BNC

### Power

+5 V @ 1.20 A typical

+12 V @ .12 A typical

### Relay Life Expectancy

Rated Load Operations:  $>3 \times 10^8$  Dry

Circuit Operations:  $>1 \times 10^8$

### BITE

Read-back capability of all relay driver states provides system check of entire board, except for relay contacts.

### Configuration

True 4x8 matrix with 4 highways also switched to P2

### Relay Contacts

Max. Current, Resistive Load:

0.25 A

Max. Voltage

DC Resistive Load: 50 V

AC Resistive Load: 120 V

Max. VA, Resistive Load: 4 VA

Typical Operating Time

(including bounce): 1 msec

Max. Contact Resistance

Initial: 0.2  $\Omega$

End of Life: 1.0  $\Omega$

### VMEbus Compliance

Complies with ANSI/IEEE Std. 1014-1987

A32/A24/A16:D16 DTB Slave

No SYSFAIL

No Interrupts

IACKIN tied to IACKOUT

BRX tied to BGX

Form Factor: Size B

### Applications

Switching matrix for ATE

Signal switching for data acquisition

Signal switching for simulation

Systems signal control in a lab or development environment

### Ordering Information

Part Number: 11026000-001

Application Notes: 11026005