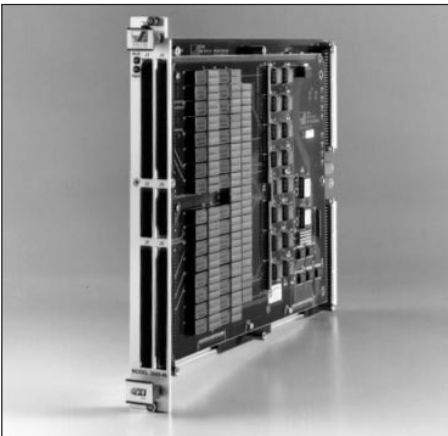


MODEL 3000-46

ASCOR Model 3000-46 "Flex Switch" VXI Module



ASCOR's Model 3000-46 "FLEX SWITCH" VXI Module is a high-density mixed signal switch, for both digital and analog applications. The module consists of two groups of relays. One group can be operated as two-wire isolation relays. The isolation relays can be used to isolate high-speed signals from a digital subsystem. These same isolation relays are connected to a second group of relays that can be organized as a highly configurable one or two-wire multiplexer. One application for the multiplexer is to connect signals to analog instruments, for parametric measurements. The multiplexer configurations are under program control.

- The unit is a C size slot VXI Module.
- Register Based Programming, for quick efficient relay programming.
- The "Flex Switch" contains two groups of shielded relays, used for isolation and multiplexing, that are all program configurable.
- The first group of shielded relays consists of 64 DPST relays; which can be operated as 64 two-wire isolation relays, or 128 single wire, switched in pairs. Minimum bandwidth 100MHz.
- The second group of shielded relays, in the module, can be programmed as a single wire or two-wire multiplexer. The following configurations are available under program control.
As a one-wire multiplexer: sixteen (16) 8 x 1; or eight (8) 16 x 1; or four (4) 32 x 1; or two (2) 64 x 1.
As a two-wire multiplexer: eight (8) 8 x 1; or four (4) 16 x 1; or two (2) 32 x 1; or one (1) 64 x 1.
- The 3000-46 utilizes common connector pins for both the isolation relays and the multiplexer. This connector design reduces cabling costs and provides for improved signal performance as the two groups are connected internally. This connection improves both the bandwidth and the signal to noise ratio for both groups of relays.
- All relays are coaxially shielded for maximum signal to noise ratio and bandwidth.
- External ground reference inputs are available for measurements relative to these references.

High Performance "Flex Switch" Module

ASCOR has designed a comprehensive family of high density VXI Switching Modules tailored to allow maximum flexibility for the system integrator. ASCOR's proven experience in designing high performance, high density switching solutions is incorporated in this design. Ideal for switching frequency stimuli and instrument signals to and from the UUT, this module provides the ultimate in combining digital and analog test capabilities into one compact unit. By combining the analog measurement multiplexing and high speed digital switching in one high performance module, the test engineer can perform test measurements with signal fidelity far superior to that achieved with long cable runs.

High Density And Maximum Configurability

The ASCOR Model 3000-46 module is a highly configurable module for supporting various

high frequency ATE test applications. The module provides high speed two-wire isolation switching for sixty-four (64) channels to digital subsystems. Attached to the isolation relays, the unit provides a reconfigurable single or two-wire multiplexer. The two-wire option can be programmed as eight (8) 1 x 8; or four (4) 1 x 16; or two (2) 1 x 32; or one (1) 1 x 64 multiplexer. The single wire option can be programmed as sixteen (16) 1 x 8; or eight (8) 1 x 16; or four (4) 1 x 32; or two (2) 1 x 64. By incorporating the multiplexer portion of the 3000-46 into the test system design, customers can verify input/output conditions to the Unit Under Test (UUT) prior to connecting the digital source signals to the UUT. Using this test scenario, users of the 3000-46 can potentially prevent damage to both the UUT and instruments within the test system as well as monitor signals during test applications.

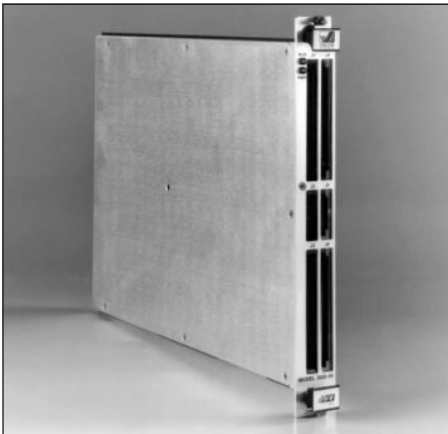


ASCOR
INCORPORATED

A Giga-tronics Company

MODEL 3000-46

ASCOR Model 3000-46 "Flex Switch" VXI Module



ASCOR's Model 3000-46 "Flex Switch" provides an innovative solution to handling both digital and analog signal switching.

Self Testing

Like all ASCOR VXI Modules, the Model 3000-46 incorporates internal self test hardware which includes the ability to test, read back and verify the integrity of the program control circuitry.

All ASCOR VXI Modules also feature a unique built-in service record, for tracking repairs to the Module by time and date the repair was actually performed.

ASCOR also provides a 3 year limited warranty on all VXI Modules.

Quiet Ideas. Powerful Solutions. ASCOR, founded in 1987 and headquartered in California's Silicon Valley, provides a complete line of VXI and PXI Switching and Digital Modules for industrial, medical, scientific and governmental automatic test applications. ASCOR VXI and PXI products are the quietest, cleanest, highest density modules commercially available.

Specifications

- VXI, single slot "C" size module
- Programming is register based **VXIplug&play**
- VXI Power
+5 volts @ 4.04 Amps (max.)
- Electrical:
 - Sixty-four (64) DPST Relays:
 - Maximum switching Voltage (DC, Vpeak, resistive) 200volts
 - Maximum switching Current (DC, Vpeak, resistive) 0.5 Amps
 - Maximum switching power 10 Watts
 - Carry Current (Vdc, Vrms) 1.5 Amps
 - Life Expectancy (Signal<1.0V; 0.01A) 1,000 x 10⁶ cycles
 - Single/Two-wire Multiplexer
 - Maximum switching Voltage (DC, Vpeak, resistive) 200volts
 - Maximum switching Current (DC, Vpeak, resistive) 0.5 Amps
 - Maximum switching power 10 Watts
 - Carry Current (Vdc, Vrms) 1.5 Amps
 - Life Expectancy (Signal<1.0V; 0.01A) 1,000 x 10⁶ cycles
- Isolation >10⁷ohms
- Bandwidth (-3 dB)

-1 x 1 two-wire switch	differential >175MHz	single ended >100MHz
-1 x 8 two-wire multiplexer	>95MHz	>74MHz
-1 x 16 two-wire multiplexer	>90MHz	>64MHz
-1 x 32 two-wire multiplexer	>85MHz	>57MHz
- Environmental Specification
 - Temperature
 - Operating: 0 to 55° C
 - Storage: -40 to 75° C
 - Relative Humidity
 - Operating: 10 to 90% non-condensing
 - Storage: 0 to 95% non-condensing

Protecting Your Investment With VXIMAX™ 16/32

To address tomorrow's applications, requiring even greater capabilities, ASCOR's 3000-46 supports either 16-bit or 32-bit data bus paths through its VXIMAX 16/32 VXIbus interface.

ASCOR 3000-46 customers can upgrade to 32-bit from 16-bit with VXIMAX's field upgradability.

CE The CE Mark indicates that the product has completed and passed rigorous testing in the area of RF Emissions, Immunity to Electromagnetic Disturbances and complies with European electrical safety standards.

Ordering Information:

- ASCOR 3000-46 VXI Module
- Installation Kit (includes hardware to mate with one module) PN: 89800360

Distributor Information:



4384 Enterprise Place, Fremont, CA 94538-6365
Telephone: (510)490-2300, Fax: (510)490-8493, Website: www.ascor-inc.com

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