

MODEL 4505

Five 1x4 20 Amp Power Multiplexer
Five 1x2 20 Amp Power Multiplexer



General Description

Multiplexer Power Switch five 1x4 and five 1x2, 20A. In each of the 1x4 and 1x2, there is a default position which is normally closed. During initial turn on or after a reset to the card, the switch trees will be set to the default position. This card assembly fits in an ASCOR's Series 4000 Multi-slot host carrier VXI module which can be 3 wide to 8 wide with the capacity to hold 6 to 17 card assemblies. This allows for ease in design of complex switch systems. The card occupies two 0.5 inch slots or 1 inch pitch, compared to a 1.2 inch pitch for standard VXI.

The Series 4000 Multi-slot host carrier VXI module contains a *Signal Guard*, sixteen 2-wire analog back plane to allow connections between card assemblies without the need of external cabling. *Signal Guard* is a 500MHz analog bus interface connecting all ASCOR 4000 Series VXI cards. Shielded transmission lines and relays ensure high signal integrity by preventing noise ingress and crosstalk within the switching system. Impedance matched transmission lines minimize the effects of internal, high frequency signal reflections. No custom cabling is required between the switch cards. *Signal Guard* also eliminates customized cabling between switches and instrumentation. *Signal Guard's* high bandwidth, modular interface saves engineering time and avoids the risk of cabling problems degrading effective instrumentation performance.

The ASCOR 4000 Series Switching System also simplifies the software design, coding and driver interface tasks. The 4000 Series cards assemble

into a carrier cage prior to insertion in the VXI chassis. The carrier's backplane interface allows the entire switching system to connect with a single VXI address. Software developers no longer need to account for the highly variable effects of multiple switch addresses, multiple driver interfaces, multiple card-to-card switch interconnections, variable path setting times, multiple device interface variations and configuration dependent query/error tracking functions.

The Model 4505 is a VXI register based card assembly design to be used with the ASCOR Series 4000 Multi-slot host carrier VXI module. The switch paths are controlled by a high speed interface called VXImax™ which is a 16/32 bit data controller. The Model 4505 can be programmed in 16 bit or 32 bit wide data format. Through your VXI controller, write the data to the appropriate register as shown on the register map for the relay or relays in the register that is being closed. When the data bit is true, the relay chosen will be closed. The state of the relays in a register can be determined by reading the desired register. The data read back represents the value at the coil of the relay. This allows verification that the program register has correctly controlled the relay coil (Built In Test).

All ASCOR 4000 Series switch products are register-based devices and are supplied with software drivers for LabVIEW, LabWindowsCVI, C, C++ and Visual Basic. ASCOR's VXI cards conform to European standards for CE marking.



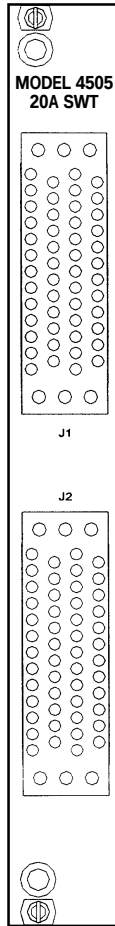
A Giga-tronics Company

**ASCOR Is The One Switch Source For
Multiple Switching Solutions.**

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MODEL 4505

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Five 1x2 20 Amp Power Multiplexer



Specifications:

Weight and Dimensions

- Pitch: 1.0 inch
- Width: 7.825 inches
- Length: 10.75 inches
- Weight: 1 lbs.

Electrical Specifications

- Switching Voltage: 250 VAC
- Switching Current: 20 Amps
- Contact Power Rating (Resistive): 250 W or 5000 VA
- Breakdown voltage: 1000 Vrms
- Contact Resistance: <1 ohm
- Connector: Burndy type MS, 50 pin

Custom Solutions Through Engineering Innovation

ASCOR Incorporated, a Gigatronix Company, is the leading supplier of test automation switching systems. ASCOR sets the industry benchmark for signal integrity: High bandwidth, high isolation, low noise, low distortion and low signal loss. The company offers the most extensive design, delivery and technical support services available. Modular switch products in DC, analog, RF, microwave and lightwave are configured for a variety of recognized standards including CompactPCI, rack-mountable GPIB, PXI and VXI. ASCOR is the one switch source for multiple switching solutions. ASCOR's Web address is: www.ascor.com



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