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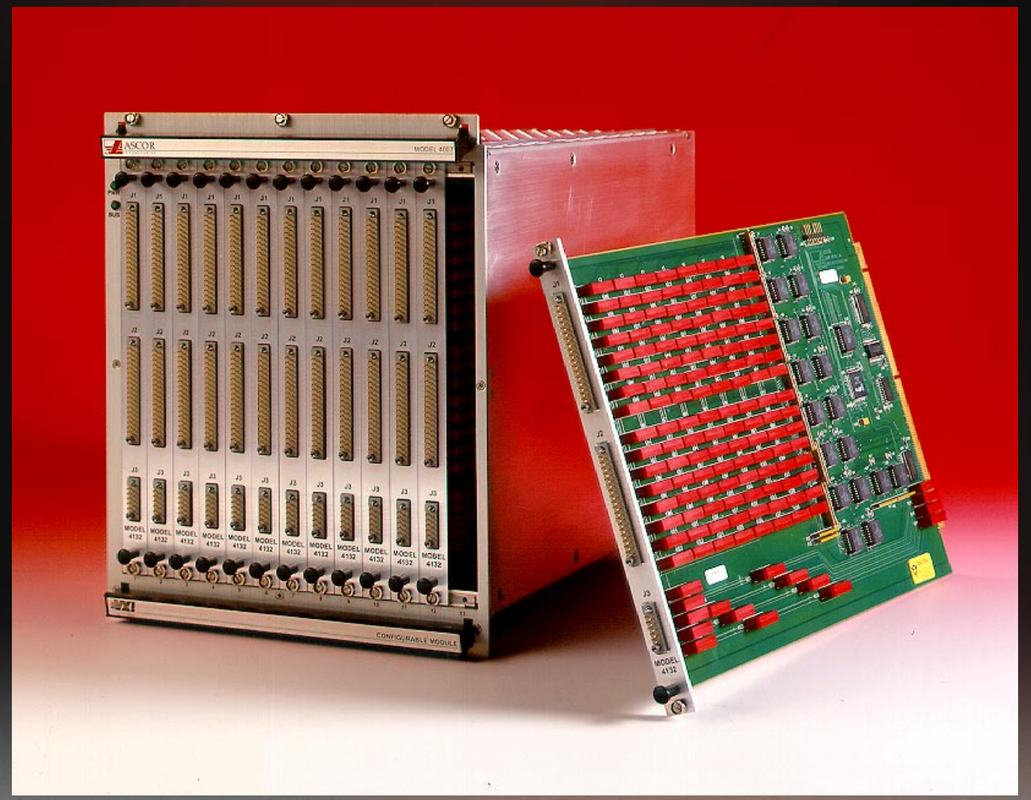
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ASCOR INCORPORATED

4000 Series

MULTI-SLOT VXI MODULES

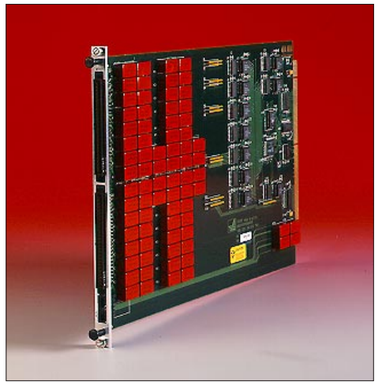


VXI plug&play

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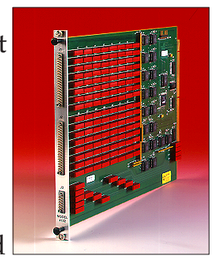
4000 Series™ *MULTI-SLOT* VXI MODULES WITH VARIABLE INSTRUMENT CARDS



Series 4000™ *Multi-slot* VXI Modules

The new ASCOR Series 4000 VXI modules have been designed and developed after a number of years of building *Multi-slot* VXI modules for a variety of different test applications. The major advantage for the customer to buying such a product is that when multiple matrices have to be tied together to create a large matrix, the multiple smaller matrices can all be tied together internally. The customer does not have to splice wires together.

Before the *Multi-slot* module concept, the solution to creating a large matrix meant that the engineer would have to externally splice the different matrices together. In addition to opening and closing relays within the newly created large matrix, the engineer would have to address and send commands to multiple VXI modules.



Needless to say, not only was the programming cumbersome, but the ability to control bandwidth and stub lines was virtually non-existent. The advent of the *Multi-slot* module solved those issues with dramatic results. In one documented example, the *Multi-slot* module provides the customer with 15 MHz bandwidth through the worst path of a full 4 x 384 dual-wire matrix. This performance represents a substantial improvement over the estimated <1MHz that would have been realized with external splicing.



In the Series 4000, ASCOR has taken the concept of *Multi-slot* modules even further than we initially envisioned. In addition to the technical improvements that the *Multi-slot* modules provide, the Series 4000 affords flexible front panel connectivity and rapid board level replacement. Both of these latter features ensure that the customer enjoys minimal MTTR. The Series 4000 is not for everyone, but it does fit when you have a requirement for multiple VXI switch modules of the same or similar type. We can, under some circumstances, mix Series 4000 printed circuit card assemblies (PCAs) with different functions, but the basic designs are built around multiple PCAs of the same function.



With the Series 4000, ASCOR provides a 100 MHz backplane located within the *Multi-slot* VXI module. The *Multi-slot* module contains both the VXI interface and the backplane. The different PCAs are housed within the *Multi-slot* module. *Multi-slot* modules are available in widths of from 3-wide (occupies 3 VXI slots) to 8-wide (occupies 8 VXI slots). Depending on the customer's requirement, the customer can configure from six to seventeen PCAs within the various *Multi-slot* module options. All of the PCAs are removable from the front so that in the event a PCA fails; the customer merely unplugs the connector on the front of the PCA and removes the PCA from the *Multi-slot* module. The spare or repaired PCA can be plugged back into the *Multi-slot* module in a similar manner.



It is important to remember that the *Multi-slot* module containing PCAs appears to VXI as a single VXI module and the *Multi-slot* module is addressed as such. The **VXI*plug&play*** drivers that are furnished with the *Multi-slot* module identify the module as a single module with a variety of switch capabilities. For programming, the customer addresses the Series 4000 *Multi-slot* module as a single independent module and all of the PCAs within the *Multi-slot* module are addressable as well. As with all ASCOR VXI modules, the Series 4000 is a register-based device. The drivers that are provided are written using LabWindows CVi and are written in C++.

Contact ASCOR or your local ASCOR representative for more information about how Series 4000 VXI product can solve your large and complex switching requirements.

Call Us Today At:
510.490.2300
www.ascor-inc.com

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ASCOR Series 4000 VXI Multi-slot modules come in a variety of configurations depending on the customer's requirements.



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S P E C I F I C A T I O N S

	Model No.	Description	Current Rating	Crosstalk/ Voltage	Bandwidth/ Switching Power	Insertion Loss/ Isolation
Series 4000 Printed Circuit Assemblies	4032	32 SPDT 1 Amp Relays GP	1 Amp	220 VDC	30 VA	
	4048-1	48 SPDT 1 Amp Relays GP	1 Amp	220 VDC	30 VA	
	4048-5	48 SPDT 5 Amp Relays GP	5 Amps	277 VAC	1,250 VA	
	4049	64 SPST 2 Amp Relays GP	2 Amps			
	4050	128 TTL I/O Drivers				
	4064	64 SPST 1 Amp Relays GP	1 Amp	-50dB @ 10 MHz	30 VA	
	4108	Twelve (12) 1 x 8 Single-Wire Switch Multiplexers	1 Amp	-50dB @ 10 MHz	>40 MHz	10^7 Ohms
	4116	4 x 16 Single-Wire Matrix	1.5 Amps	-30dB @ 50 MHz	>70 MHz	
	4132	4 x 32 Single-Wire Matrix	1.5 Amps	-30dB @ 50 MHz	>60 MHz	
	4164	2 x 64 Single-Wire Matrix	1.5 Amps	-30dB @ 50 MHz	>50 MHz	
	4208	Six 1 x 8 Two-Wire Matrix Switch Multiplexers	1.5 Amps			
	4216	8 x 16 Two-Wire Matrix	1.5 Amps	-45dB @ 50 MHz	>100 MHz	10^7 Ohms
	4228	2 x 64 Two-Wire Matrix				
	4228u	2 x 64 Two-Wire Matrix (Unshielded)	2 Amps			
	4232	4 x 32 Two-Wire Matrix	1.5 Amps	-40dB @ 50 MHz	100 MHz	-1dB @ 50 MHz
	4264	64 x 1 Two-Wire Multiplexer				
	4308	RF Switch w/eight 1 x 2s, six 1 x 8s and two 1 x 4s Multiplexers				
	4332	Eight 8-Pole Star Switches				
Special Printed Circuit Card Assemblies	4501	50-Ohm Resource Card			>500 MHz	
	4502	64-Channel Resource Allocation Card				
	4505	20A Power Switch	20 Amps			
	4506	10A Power Switch	10 Amps			
	4507	50 MHz Switch- 36 1 x 2s			>100 MHz	
	4508	50 MHz Switch - 11 1 x 4s			>100 MHz	
	4509	COAX Switches			>1 GHz	
	4511	32 Mercury Wetted Switches	5 Amps	500 V	2500 VA	
	4512	Dual 1 x 32 Two-Wire Multiplexers w/Interconnect	1.5 Amps			
	4513	8 x 8 Single Wire Matrix w/eight 4-pole Stars	1.5 Amps			
	4514	16 High Voltage (Mercury Wetted) Switch Matrix	5 Amps	500 V		
	4515	Eight 1 x 6s 5A 2W	5 Amps			
	4516	Ten 1 x 8s 5A 1W	5 Amps			
	4517	Eight 10-Pole Star Switches				
	4518	Analog Backplane Output Isolation Card				
	4519	Programmable Serial I/O - 4 Channels/Card				
	4520	Eight 2 x 8s (Unshielded)				
	4521	Twenty DPST 10 Amp GP Relays	10 Amps			
	4522	80 TTL I/O & 48 Open Collector Drivers				
Multi-slot VXI Modules – Designed to house Series 4000 PCAs 4003 3-Slot Module, 4004 4-Slot Module, 4005 5-Slot Module, 4006 6-Slot Module, 4007 7-Slot Module and 4008 8-Slot Module.						

*All Series 4000 products require an industry standard VXI chassis in which to operate.

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

Environmental Specifications
- Temperature
  - Operating 0°C to 55°C
  - Storage -40° to 75°C
- Relative Humidity
  - Operating 10 to 90% Non-condensing
  - Storage 0 to 95% Non-condensing

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

ASCOR INCORPORATED
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