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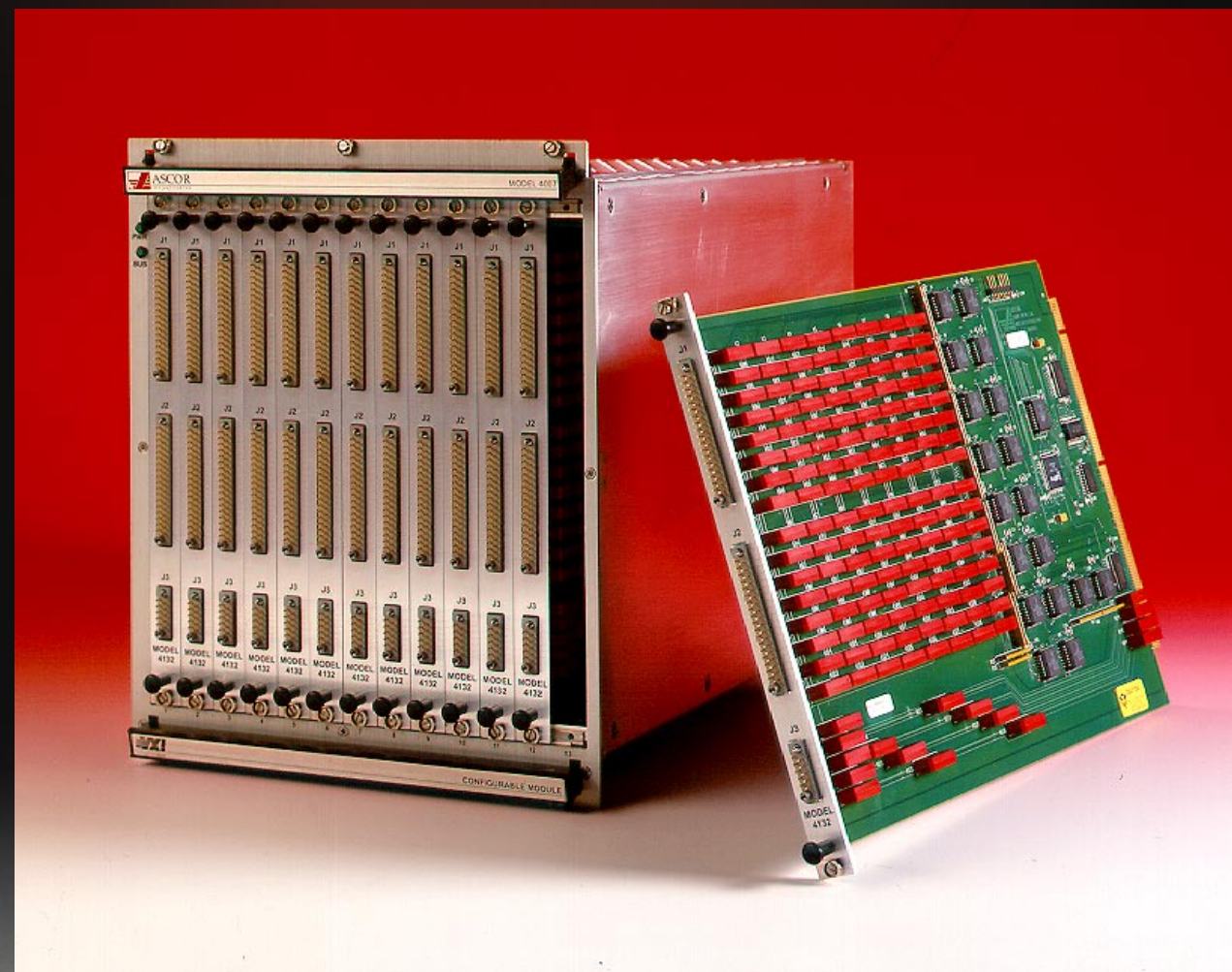
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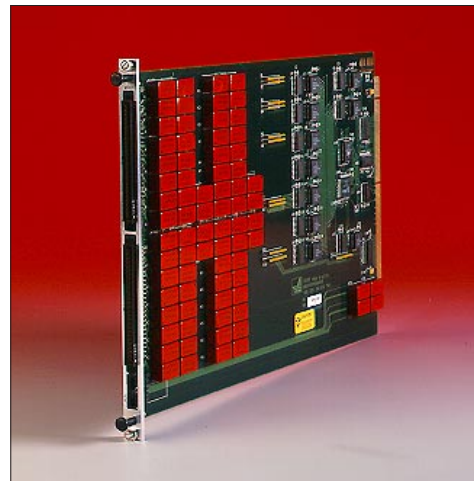
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4000 *Series* **MULTI-SLOT VXI MODULES**



4000 Series™

MULTI-SLOT VXI MODULES WITH VARIABLE INSTRUMENT CARDS



Series 4000™ Multi-slot VXI Modules

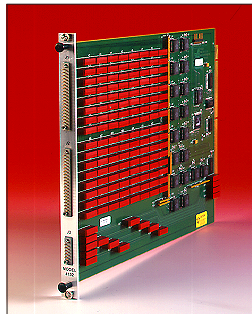
The new ASCOR Series 4000 VXI modules have been designed and developed after a number of years of building *Multi-slot* VXI modules for a variety of different test applications. The major advantage for the customer to buying such a product is that when multiple matrices have to be tied together to create 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



VXIplug&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.

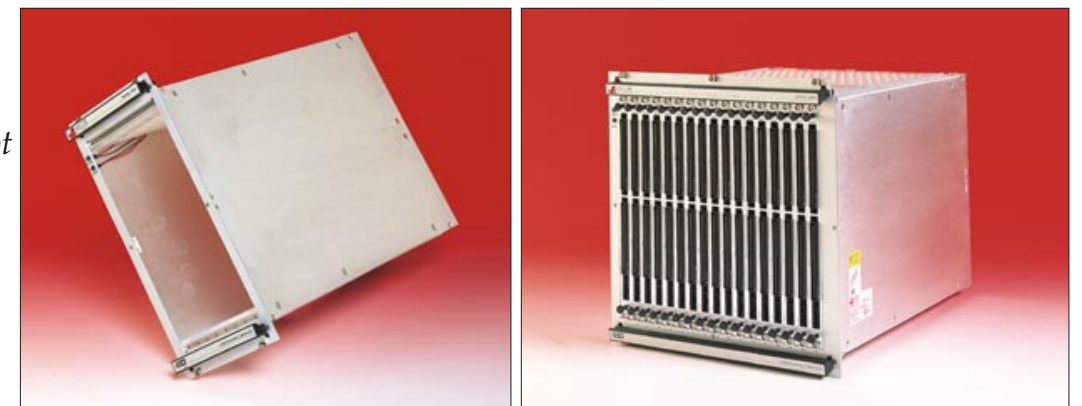
The drivers that are provided are written using LabWindows CVi and are written in C++.

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



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



| | 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%
 - Storage Non-condensing
 - Storage 0 to 95%
 - Storage 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.



A Giga-tronics Company

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