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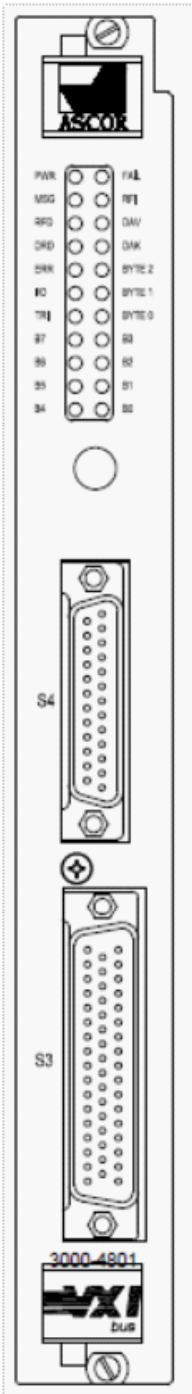
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Find the *Astronics / Giga-tronics / Ascor 3000-4801* at our website: ***Click HERE***

# Model 3000-4801

# 48 OPTO-ISOLATED CMOS I/O




## Product Description

Tektronix has chosen to exit the VXI module market. This has caused some concern with users who have Tektronix modules running in systems which still have to be maintained for some indefinite future period. Giga-tronics ASCOR, drawing on its 15 years of producing general purpose VXI modules, has designed functionally equivalent replacements for a number of Tektronix modules. However we have gone beyond just functional equivalence, we provide a unit which is both hardware and, with ASCOR's *Plug&Play* drivers, software compatible with existing systems.

## Compatibility

- **HARDWARE** - From the hardware front panel, . Giga-tronics ASCOR has chosen to take the "clone" approach. The front panels have the same connectors with the same signals appearing on the same pins as the original Tektronix modules. No adaptor cables or cross-reference charts are needed. Hardware *Plug&Play*.

- **SOFTWARE** - The Giga-tronics ASCOR *Plug&Play* software driver, which is provided for each unit, replaces the Tektronix *Plug&Play* software driver. When the ASCOR driver is installed it will run either the original Tektronix unit or the ASCOR replacement at the same time in the same chassis. No changes to any system code are needed.

## Future OBSOLESCENCE

While ASCOR has taken a "clone" approach to the front panel connectors, inside the module is a different story. Again using its 15 year history of designing superior VXI modules, ASCOR designs the inside circuitry using the latest parts and technology. There is no worry of the Giga-tronics ASCOR unit becoming obsolete because of the parts used. Strict adherence to transmission line design ensures a module with greater bandwidth and lower cross-talk than the original Tektronix unit.

**www.gigatronics.com | inquiries@gigatronics.com**
**800.726.4442 (USA) | +1 925.328.4650 (International)**

Giga-tronics ASCOR

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# Model 3000-4801

# 48 OPTO-ISOLATED CMOS I/O

**Functional : The Model 3000-4801 provides 48 Optically Isolated TTL or CMOS capable bi-birectional I/O lines. The 48 outputs are organized as six 8-bit bytes. Each of the six bytes can be configured under program control.**

| | |
|---|---|
| Byte Transfer Polarity: | Input and output bytes selectable as active high or active low. |
| Input data: | Returned as two hexadecimal ASCII characters per byte. |
| Input Control: | On programcommand, or with external DRD or DAK handshake. |
| Output Data: | Programmed as tow hexadecimal ASCII characters per byte or by an H or L character on an individual byte basis. |
| Output Control: | On program command or with external RFD or DAV handshake. |
| TRI-STATE Control: | On program command on each byte ro by external tristate control. |
| Mask Capability : | AND, OR and XOR masking provided of each I/O byte. |
| Byte Ordering : | A predetermined sequence for input or output byte transfer may be programmed. Bytes may be transferred in any required order. |
| Interrupt Modes : | Program selectable on programming error, RFD or DRD handshake. |
| Ext. Control Logic Sense : | Data Available, Ready For Data, Data Acknowledge, and Data Ready control line polarities are all program selectable as high or low true. |
| I/O Signal Type : | TTL and CMOS compatible ( 74ABT16541 driver chip ). |

## Specifications

### Electrical

- Voh = 3.0V (Ioh = -3ma)
- 2.0V (Ioh = -32ma)
- Vol = 0.55V
- Vih = 2.0V
- Vil = 0.8V
- Iin = 1uA
- Ioz = 50uA

### Power Requirements

- 5 volts @ 2.2A (Max)

### Environmental

**Temperature**

- Operating 0° to 55°C
- Storage -40° to 75°C

**Humidity (non-condensing)**

- Operating 10 to 90%
- Storage 0 to 95%

### Mechanical

- "C" size VXI
- Weight 3lbs

- All ASCOR cards have built-in circuitry to verify both the control signal from the programming register, as well as verifying the relay coil is intact.
- All Switching modules feature built-in memory to maintain the service record of the unit with time stamping.
- All Modules carry a full 3 year Warranty

## Ordering Information

| Model # | Description | Manufacturer # |
|---|---|---|
| 3000-4801 | 48 TTL / CMOS I/O, Opt Isolated [TEKTRONIX VX4801], Register Based Module | 90401250 |
| VX4801 | 48 TTL / CMOS I/O, Opt Isolated [TEKTRONIX VX4801], Message Based Module | 90401710 |

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