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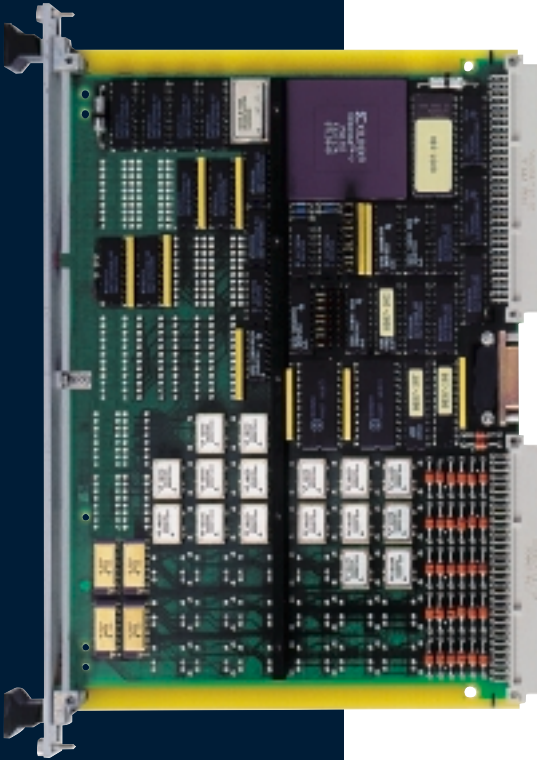
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PIO-2 Parallel I/O Interface



- 32 parallel I/O lines for monitoring and controlling applications
- Inputs and outputs optically isolated
- Outputs switch up to 1.0Amp (1.5A option)
- Input filtering and high voltage spike protection
- 6 programmable 16 bit counter/timers
- Change of state monitoring for all inputs
- All I/O through the P2 connector
- VMEbus slave
- Comprehensive Built-In-Test (BIT)



Product Overview

The PIO-2 enables any VME-based system to interface easily with the real world. It provides an optimized and very flexible connection arrangement between the VMEbus and a wide range of external sensors and actuators.

The PIO-2 provides 32 parallel channels of I/O. Each channel can be an optically isolated input, or an optically isolating solid state relay output, or both together, known as monitored output. The outputs can switch 1.0 Amp at up to 60 Volts, and the inputs can be individually specified to operate at 5v, 12v, 28v, 48v, or any custom voltage.

Within the maximum of 32 channels, any number of inputs and any number of outputs can be specified in any combination

I/O Connections

All I/O connections to the PIO-2 are made through the system backplane to the P2 connector. Each I/O line is assigned 2 pins and there are no common connections. Input bits must be driven from an external dc current source.

VMEbus Interface

The PIO-2 is addressed as a VMEbus slave, occupying a block of locations in A24 address space. Either 8 or 16 bit data transfers may be used between the VMEbus host processor and the PIO-2 to transfer status, control and data. The PIO-2 is a VME interrupter with interrupts generated on a change of state of an input bit, or by the expiration of any one of the timer/counters. The basic Status/ID interrupt word is set into the PIO-2 by the VMEbus host processor and the source of interrupt is encoded to permit simple identification.



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Optically Isolated Inputs

The PIO-2 provides a set of optically isolated dc current-loop inputs. Each input is protected against damage from high voltage spikes by transorbs and is also filtered with a software programmable time constant for unambiguous reading of electro-mechanical devices such as switches and relays. Input lines can be programmed to cause an interrupt request either as a result of a change of state, or alternatively, at the end of a predetermined time interval, ignoring intervening changes of state.

Optically Isolated Outputs

The PIO-2 uses miniature solid state relays to switch remote dc voltages. Each line uses a separate device and an opto-coupler, ensuring complete isolation. The outputs may be used in any configuration where it is not possible to rely on a common signal ground connection. An example of this kind of application is in machinery control, where the PIO-2 may be used to drive relays or solenoids at a considerable distance and widely scattered from each other. Isolation provides the immunity from high ground-loop currents and electrical noise which are typical of these systems.

Counter/Timers

The PIO-2 has six 16 bit programmable timers which are independent of the I/O lines and available for use in any system application. All timers are fed from a common on-board 5 MHz crystal clock, divided to give a timer range from 3ms to 10sec.

Ordering Information

Order Code	Description
PIO2-S	Level 1 Air-cooled
PIO2-X	Level 2 Extended temperature air-cooled (-20/+65°C)
PIO2-RA	Level 3 Wide temperature rugged air-cooled (-40/+75°C)
PIO2-RC	Level 4 Wide temperature rugged conduction-cooled (-40/+75°C)
PIO2-T	Full mil-teperature range (-55 to +85°C) conduction-cooled, all ceramic

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