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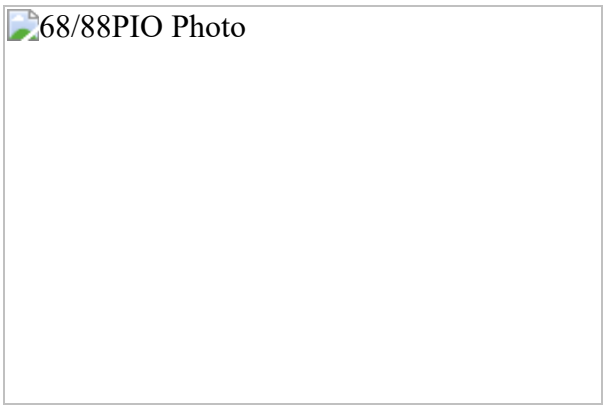
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ASP/PIO -- VMEbus Parallel Interface Module

The ASP/PIO is a versatile parallel interface module which consists of 88 I/Os. These 88 lines are made up of 80 discrete I/Os and 8 timer I/Os. The ASP/PIO is designed around four TS68230 Parallel Interface/Timers (PI/T) components. The module provides a highly flexible solution to the discrete I/O needs of a VMEbus system.



Each PI/T consists of two logically independent sections: the I/O port section and the timer section. The port section in turn consists of port A and port B, which are 8-bit ports. The timer section consists of a 24-bit counter which uses three of the dual-function pins for input, output, and timer interrupt acknowledge.

- Four TS68230 Parallel Interface/Timers
- 80 Parallel I/Os
  - 48 Bi-directional TTL
  - Eight TTL/RS232/RS422
  - Four Opto-isolated inputs
  - 16 TTL handshake lines
- Optional 330/470 Termination
- Four 24-bit Timer/Counters
- Interrupt driven
- IEEE 1014 VMEbus slave interface
  - A16; D16/D8

Real-Time O/S Supported

The ASP/PIO Interface Module is supported by a variety of Real-Time Operating System Software such as VxWorks, OS-9, and others. Software drivers are available.

Specifications:

FUNCTIONAL	SPECIFICATIONS	
INTERFACES	IEEE 1014 VMEbus Slave (A16;D16/D8(EO))	
	BIDIRECTIONAL TTL	48 Lines (six 8-bit ports) Direction control via Port C bit-0 and bit-1 or control register
	PORT A AND B OF 68230 # 1,2 & 3	TTL @ 48 ma (Optional termination)

	OPTO-ISOLATION (PORT B OF 68230 #4)	4 inputs (one 8-bit port; bits 0-3 only)
	RS-232/RS-422/TTL (PORT A OF 68230 #4)	8 lines (one 8-bit port) 4 input & 4 output in RS-232/RS-422 mode 8 bidirectional in TTL mode
	HANDSHAKE	4 lines / 68230 2 input and 2 bidirectional
	TIMER I/O	2 lines / 68230 1 input and 1 output
INTERRUPTS	20 possible interrupts Programmable to 1 of 7 VMEbus Interrupt lines Programmable vector for each 68230	
POWER	+5 V @ 10 W (TYP) / 14 W (MAX)	
RELIABILITY	769,882 HRS GB @ 30°C 127,918 HRS AIC @ 55°C	

This information is subject to change without notification.

Current Section: General Input/Output Interfaces



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