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Find the *Curtiss-Wright / Pentland Systems MPV906* at our website: ***Click HERE***

Pentland Systems 6U VMEbus Analog Input Boards

MPV906 - 64 Isolated Analog Inputs

With Digital I/O Option

The MPV906 provides 64 single-ended/32 differential analog inputs with fully programmable gain amplification (PGA) on all channels. Optical isolation of the VMEbus from all inputs protects the system from accidental application of large voltages. In addition to these features the MPV906 has been designed to make a number of functions programmable. The order in which inputs are sampled is controlled by entering the desired sequence in a scan-list. The sampling rate is determined by one of four software selectable sources, two of which utilise an on-board timer to generate the required frequencies. The converted digital values are stored in on-board memory. The board can be operated in continuous or transient modes and in either polling or interrupt modes. Flexible configuration allows an interrupt to be generated each time a channel is converted, when memory is half full or full and when memory is full only. The optional ACX906 digital I/O daughter board provides the MPV906 with TTL I/O via the P2 connector. Each line can be individually programmed as input or output.

Features

- 64 Single-ended or 32 differential analog inputs
- 33 kSamples/s throughput
- 12-Bit resolution
- Software programmable gain amplifier
- Additional hardware configurable amplifier
- Analog I/P and digital I/O (ACX906) optically isolated from VMEbus
- On-Board DC/DC converter
- Interrupt level/Vector software selectable
- Sampling rate and order of channel conversion programmable
- Three trigger options

Specification (at 25°C)

Analog Inputs

- Number of Channels: 64 Single Ended (or 32 Differential)
- Resolution: 12 bits
- Accuracy(at Gain = 1): ±0.05% Full Scale Range
- Input Ranges(Jumper Selectable):-
  - Unipolar: 0 to +10V
  - Bipolar: ±5V, ±10V
- Gain Ranges:-
  - Resistor Selectable: 1 to 1000
  - Software Programmable: 1, 10, 100
- Throughput Rate (at Gain = 1); 33 kSamples/s

Digital I/O Section (ACX906)

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- Number of Channels: 32
- All Digital I/O Individually software programmable
- Readback of Outputs
- I/O Levels: TTL Compatible

System Specification

- VMEbus Compliance: A24/A16:D16 DTB Slave
- On-Board Data Memory: 64 Words (Dual-ported)
- Bus Interrupter: IRQ 1-7
- Mechanical Format: 6U
- Power Requirements: +5V ± 5% at 2.5A max.
- Isolation: 300V DC Field to bus.
- Operating Temperature: 0°C to 60°C

Ordering Information

- MPV906: 64 Channel Isolated Analog Input Board
- ACX906: 32 Channel Digital I/O Daughter Board

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