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Data Sheet

August 15, 2026

CURTISS-WRIGHT / PENTLAND SYSTEMS

Curtiss-Wright / Pentland Systems MPV901P Analog I/O Module with Programmable Gain Amplifier

Curtiss-Wright Pentland Burr-Brown MPV901P VME Analog I/O with Programmable Gain The MPV901P is the software-programmable-gain analog I/O member of the Pentland/Burr-Brown MPV901 VME family (later Curtiss-Wright). OEM MPV901 series literature lists a 12-bit A/D converter, sample/hold, 32 single-ended or 16 differential multiplexer, software PGA with dynamically monitored gain and channel selection, and two 12-bit D/A converters. PGA settling is calculated to allow maximum data throughput. VME analog I/O with programmable gain, 12-bit conversion, and dual 12-bit analog outputs. The MPV901P is the software-programmable-gain analog I/O member of the Pentland/Burr-Brown MPV901 VME family (later Curtiss-Wright). OEM MPV901 series literature lists a 12-bit A/D converter, sample/hold, 32 single-ended or 16 differential multiplexer, software PGA with dynamically monitored gain and channel selection, and two 12-bit D/A converters. PGA settling is calculated to allow maximum data throughput. VME analog I/O with programmable gain, 12-bit conversion, and dual 12-bit analog outputs.

**MODEL****Curtiss-Wright /
Pentland Systems
MPV901P****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****MPV901P****LISTING**<https://aumictechlabs.com/products/mpv901p-2/>

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NAICS 423690 • 811210 • 541380

This unit

The Curtiss-Wright / Pentland Systems MPV901P is a single-slot VMEbus analog input/output module engineered for industrial data acquisition and signal processing in demanding environments. This module combines a 32-channel single-ended (or 16-channel differential) analog multiplexer, software-programmable gain amplifier, sample-and-hold circuit, and 12-bit ADC on the input side. The output section provides two 12-bit DACs with associated control logic. Dynamic monitoring of gain settings and channel selection enables real-time settling time calculation, optimizing throughput rates without sacrificing signal integrity. Technical Specifications Form Factor: Single-slot, double Eurocard VME module per IEEE STD 1014-1987 Analog Input Channels: 32 single-ended or 16 differential Input ADC Resolution: 12-bit Analog Output DACs: Two 12-bit converters Gain Amplifier: Software-programmable with dynamic channel and settling time monitoring Bus Interface: VMEbus (IEEE STD 1014-1987), electrically and mechanically compatible Key Features Programmable gain amplifier with real-time settling time calculation for maximized data throughput Integrated sample-and-hold amplifier ensures signal stability during conversion Dual 12-bit DAC output stage with dedicated control logic Software-controlled channel selection across 32 analog input lines Single-slot VME form factor for compact system integration Typical Applications Industrial process monitoring and control Multi-channel data acquisition systems Signal conditioning in test and measurement platforms Real-time analog signal processing in harsh operating environments Compatibility & Integration The MPV901P integrates directly into standard VMEbus backplanes without additional interface hardware. Related variants include the MPV901 (analog input only) and MPV901A (input and output). This module was also manufactured under the Texas Instruments / Burr-Brown designation.

MPV901P Characteristics / Specifications

PARAMETER	VALUE
Model	MPV901P
Also Known As	MPV901P
Instrument Type	VME analog input module
Form Factor	single slot VMEbus
Adc Resolution	12 bits
Sample Hold	yes
Multiplexer Single Ended	32 channels
Multiplexer Differential	16 channels
Programmable Gain	software PGA with dynamically monitored gain and channel
Analog Outputs On This Model	two 12-bit D/A converters
Sibling Mpv901a Outputs	two 12-bit D/A converters
Sibling Mpv901p Gain	software programmable gain amplifier
Sibling Mpv901p Outputs	two 12-bit D/A converters
Pga Settling	dynamically monitored on MPV901P for maximum throughput
Bus Interface	VMEbus compatible
Manufacturer	Pentland Systems / Burr-Brown / Texas Instruments / Curtiss-Wright
Family	MPV901 MPV901A MPV901P
Input Section	multiplexer, instrumentation amplifier, sample/hold, 12-bit ADC
Mechanical Package	VME single slot
Channel Selection	analog multiplexer
Throughput Aid	PGA settling calculated on MPV901P
Related Timer Board	MPV991 VME timer/counter in the same Pentland family
Use Case	VME analog data acquisition
Documentation Source	Pentland/Curtiss-Wright MPV901 series analog I/O module literature

MPV901P Specifications

PARAMETER	VALUE
Applications	VME analog I/O with programmable gain, 12-bit conversion, and dual 12-bit analog outputs.
Software programmable gain amplifier	Two 12-bit analog outputs
Technical Specifications	Model: MPV901P

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Manufacturer	Pentland Systems / Burr-Brown / Texas Instruments / Curtiss-Wright
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Documentation Source	Pentland/Curtiss-Wright MPV901 series analog I/O module literature
Notes	
From Pentland Systems / Curtiss-Wright MPV901 series product literature (12-bit ADC, 32 SE / 16 DIFF, S/H,	

resistor 1A, input-only MPV901). Conversion time and analog full-scale range belong on the installed manual/nameplate; reseller pages disagree and are not used here.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.