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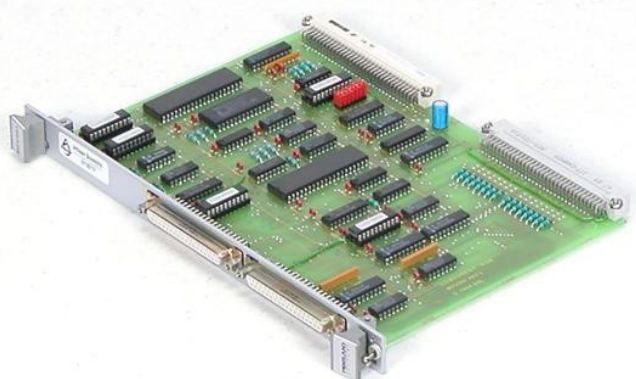
Data Sheet

August 15, 2026

CURTISS-WRIGHT / PENTLAND SYSTEMS

Curtiss-Wright / Pentland Systems MPV991 VME Bus Timer / Counter Board

Curtiss-Wright Pentland MPV991 VME Timer Counter Board The Pentland Systems / Curtiss-Wright MPV991 isaVMEbus timer/counter board. Catalog title lists MPV991 asaVME bus timer/counter board in the Pentland MPV I/O family (MPV924 is the digital I/O sibling). It provides programmable timers and event counters for VME real-time systems. VME event counting, period measurement, and timed interrupts. Instrument Type: VME timer / counter board The Pentland Systems / Curtiss-Wright MPV991 isaVMEbus timer/counter board. Catalog title lists MPV991 asaVME bus timer/counter board in the Pentland MPV I/O family (MPV924 is the digital I/O sibling). It provides programmable timers and event counters for VME real-time systems. VME event counting, period measurement, and timed interrupts. Instrument Type: VME timer / counter board Related Dio: MPV924 digital input/output board



MODEL

**Curtiss-Wright /
Pentland Systems
MPV991**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MPV991

LISTING

[https://aumictechlabs.c
om/products/mpv991-
2/](https://aumictechlabs.com/products/mpv991-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Curtiss-Wright/Pentland Systems MPV991 is a 6U VMEbus timer/counter board that delivers ten configurable 16-bit channels for precision timing and counting applications. Built on two

Am9513A System Timing Controllers, the board supports BCD or binary counting modes with programmable up/down direction control. Each channel can source from four internal frequency derivatives of a 4 MHz clock or from four external pins per STC, with selectable input polarity and Schmitt-trigger conditioning. Hardware and software gating enables each gate input to control up to three counters simultaneously, while counter outputs route through an AM9519A Universal Interrupt Controller for VME Priority Interrupt Bus capability. The architecture supports counter concatenation up to 80 bits, quadrature detection, eight digital inputs, eight gate inputs, and eight tri-state outputs. Technical Specifications VMEbus Specification Rev. C.1 compliance Single 6U Eurocard form factor Two Am9513A System Timing Controllers (STCA, STCB) Ten 16-bit general-purpose timer/counter channels Internal clock: 4 MHz Four internal frequency sources per counter Four external input pins per STC Programmable count modes: BCD or binary Programmable count direction: up or down Input polarity: active HIGH or active LOW selectable Schmitt-trigger inputs with optional low-pass filtering Hardware and software gating per counter Gate inputs: eight total (three counters controllable per gate) Output modes: pulse or toggled Output interface: software-enabled tri-state buffer Interrupt control: AM9519A Universal Interrupt Controller Maximum counter concatenation: 80 bits Quadrature detection circuitry included Digital input channels: eight Tri-state output channels: eight External connectivity: two 37-way D-type connectors (P3 for STCA, P4 for STCB) or backplane P2 connector Interface variants: standard (74LS14 Schmitt-trigger inverters) or differential (MPV991D with 100 Ω , 1/2W terminated receivers) Key Features Non-disruptive counter read capability - accumulated counts accessible without halting operation Differential receiver option (MPV991D) for noise-sensitive or remote installations Flexible input selection from onboard or external sources VME Priority Interrupt Bus integration via UIC Typical Applications Precision timing and event counting in VMEbus instrumentation, real-time data acquisition systems, and industrial control environments requiring multi-channel synchronization. Compatibility & Integration Full VMEbus Specification Rev. C.1 compliance ensures compatibility with standard VME backplanes and peripheral modules. Front-panel and backplane connector options accommodate diverse system architectures.

MPV991 Characteristics / Specifications

PARAMETER	VALUE
Model	MPV991
Instrument Type	VME timer / counter board
Bus	VMEbus
Family	Pentland Systems MPV
Related Dio	MPV924 digital input/output board
Form Factor	VME board
Manufacturer	Pentland Systems / Curtiss-Wright
Use Case	timer and counter I/O on VME
Control	VME registers
Operating Temperature Class	commercial VME
Literature	Curtiss-Wright Pentland MPV991 listings
Functions	timer and counter
Documentation Type	OEM VME I/O catalog
Brand Lineage	Pentland Curtiss-Wright
System Role	timing I/O
Slot	VME slot
Addressing	VME A16/A24 class
Interrupts	VME IRQ class
Power	VME backplane
Revision	MPV991
Calibration Source	OEM published specifications
Export Class	commercial test equipment
Operating temperature	Class: commercial VME

General Specifications & Supplementary Characteristics

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Operating temperature	Class: commercial VME
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Documentation Type	OEM VME I/O catalog
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Power	VME backplane
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Export Class	commercial test equipment Notes From Curtiss-Wright / Pentland MPV991 VME timer/counter catalog identity. Channel count, clock source, and maximum count rate are on the MPV991 data sheet.

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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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

Aumictech

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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.