Motorola MVME2304 64-W5206C01B

Complete Product Information | decision matrix

Motorola MVME2304 64-W5206C01B is an MVME2300-series PowerPC VME processor board with dual PMC expansion sites, front-panel Ethernet and an asynchronous serial interface.

02 Configuration and interface matrix

Processor family	PowerPC 603 or 604 within MVME2300 series; inspect fitted board
VME interface	VME64 extension, 5-row P1/P2 connectors
Expansion	Two IEEE P1386.1 PMC sites
Network interface	10BaseT/100BaseTX Ethernet via front-panel RJ-45
Serial interface	One asynchronous serial port via front-panel RJ-45
Memory architecture	ECC-protected DRAM; capacity depends on assembly
Nonvolatile storage	Flash and battery-backed NVRAM in series architecture
System-control option	Jumper-selectable or automatic VME system controller
Rear I/O boundary	PMC P2 routing requires a compatible VME64 extension backplane

03 Application roles and compatibility

VME chassis control

Use the processor module as the host for software and VME transactions in a chassis whose backplane and controller selection match the board.

PMC expansion

Retain the installed PMC population and connector routing when transferring a machine application to a replacement board.

Network service

Use the front-panel Ethernet path where the installed network plan provides its address and boot configuration.

Serial diagnostics

Use the asynchronous front-panel port for supported service or console access, with the correct cable and terminal settings.

Practical compatibility boundary

The Motorola series brochure identifies MVME2304 and the shared MVME2300 hardware architecture. The additional 64-W5206C01B marking is retained as supplied; its processor-speed and memory configuration are not decoded from the family brochure.

04 Product precautions

Power isolation

Switch off the VME chassis and verify discharged power rails before extracting the processor.

Backplane seating

Inspect P1/P2 engagement and the 5-row extension arrangement; never force a module into a mismatched connector.

PMC configuration

Record mezzanine identities and front versus P2 I/O usage before disassembly.

Firmware and NVRAM

Capture boot settings and inspect the removable battery/NVRAM state before changing the board.

05 Offered unit and lifecycle

Condition: New, original product. Confirm the board marking, fitted memory and PMC modules in the quotation; backplane, rear I/O hardware and software image are separate installation elements.

Lifecycle status

MVME2304 64-W5206C01B: A current manufacturing or support phase for this complete marking is unconfirmed. For support planning, preserve the fitted PMC population, boot image and complete board marking. Apter Power availability is separate from the manufacturer lifecycle phase.

Engineering decisions

How should MVME2304 64-W5206C01B be matched to an installed VME slot?	Compare both markings, P1/P2 connector style, controller selection and fitted PMC population. A base MVME2304 label alone does not establish assembly equivalence.
What determines rear I/O compatibility for MVME2304 64-W5206C01B?	Rear PMC signals use the P2 path only when the chosen mezzanine and VME64 extension backplane support that routing. Check the original slot wiring before connecting a transition module.
How should the CPU build of MVME2304 64-W5206C01B be verified?	Read the offered board labels and boot identification; the MVME2300 family contains more than one processor and speed combination.
What should be preserved before exchanging MVME2304 64-W5206C01B?	Record the boot media, firmware settings, network address, controller mode and any populated PMC modules so the replacement can be commissioned against the same system baseline.
Why might a PMC device disappear after installing MVME2304 64-W5206C01B?	Check the mezzanine seating and PCI configuration first, then confirm that its expected front-panel or P2 signal route is present in the chassis.

Discuss the fitted revision.
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Source: Motorola MVME2300 Series VME Processor Modules, M2300-D6

Other Motorola references

Motorola MVME5100

Motorola MVME31006E-1152

Motorola MVME172-333

Catalog navigation only; verify each model separately.