Motorola MVME2304 64-W5206C01B

Installation & Commissioning | field workflow

Use this guide to prepare, fit, test and document the offered MVME2304 64-W5206C01B within its actual installed system.

Exact offered identity	MVME2304 64-W5206C01B
Engineering role	VMEbus PowerPC Processor Module
Installed-system reference	MVME2300 PowerPlus VME processor platform

Before work starts

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.

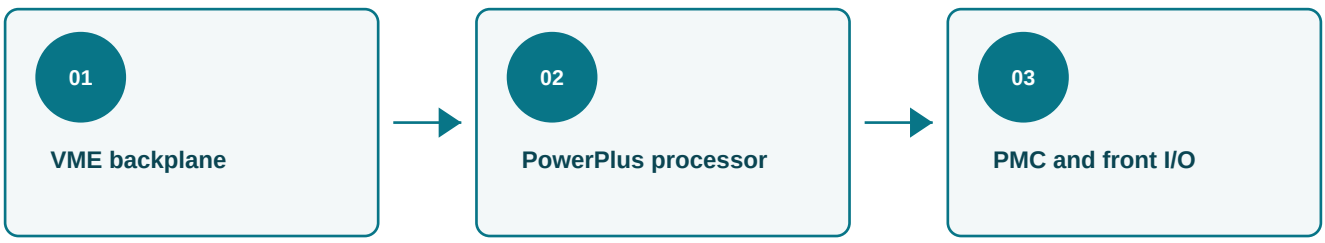
Record first

Send the complete MVME2304 64-W5206C01B marking, installed revision, quantity and system configuration with your enquiry.

Work package

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

Engineering path



02 Pre-installation readiness

STEP	ACTION	ACCEPTANCE
01	Power isolation	Switch off the VME chassis and verify discharged power rails before extracting the processor.
02	Backplane seating	Inspect P1/P2 engagement and the 5-row extension arrangement; never force a module into a mismatched connector.
03	PMC configuration	Record mezzanine identities and front versus P2 I/O usage before disassembly.
04	Firmware and NVRAM	Capture boot settings and inspect the removable battery/NVRAM state before changing the board.

Companion and host check

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

03 Fit and interface

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.

Board identity

Match both MVME2304 and 64-W5206C01B on the physical label before treating an offered board as the requested assembly.

04 Commission and prove

STEP	ACTION	ACCEPTANCE
01	System controller	Compare the controller jumper or auto-detect setting with the original chassis configuration.

STEP	ACTION	ACCEPTANCE
02	Return-to-service test	Prove boot, Ethernet and serial access, then test each application-specific PMC path under the machine acceptance plan.
03	Record the functional result	Run the installed software image, confirm chassis controller operation, exercise network and serial service, and prove every fitted PMC function through its real field connection.

I/O routing

The two PMC sites can use front-panel or P2 I/O. Verify the fitted PMC modules and backplane pinout before connecting rear I/O.

05 Handover record

Log the fitted marking, firmware or board revision, wiring changes and measured acceptance results.

Diagnostic decisions

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.
How is the front-panel network path of MVME2304 64-W5206C01B checked?	Verify cable link and configured network parameters, then test the application endpoint. A lit link indicator alone does not prove the correct boot image or host communication.
Which startup checks matter for MVME2304 64-W5206C01B?	Observe firmware and front-panel status, confirm memory initialization and VME detection, then compare the boot sequence with the recorded working system.
How should MVME2304 64-W5206C01B be accepted after replacement?	Run the installed software image, confirm chassis controller operation, exercise network and serial service, and prove every fitted PMC function through its real field connection.

Discuss the complete model and fitted revision with Apter Power.
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Technical basis: Motorola MVME2300 Series VME Processor Modules, M2300-D6