Motorola MVME172-333

Installation & Commissioning | field workflow

Use this guide to prepare, fit, test and document the offered MVME172-333 within its actual installed system.

Exact offered identity	MVME172-333
Engineering role	VME Embedded Controller with ECC Memory
Installed-system reference	MVME172LX VME embedded controller

Before work starts

The Motorola MVME172LX installation manual explicitly lists MVME172-333 as 60 MHz MC68060 with 8 MB ECC DRAM, SCSI and Ethernet. These are the -333 assembly facts, distinct from the PA-652SE Petra II variant.

Record first

Send the complete MVME172-333 marking, installed revision, quantity and system configuration with your enquiry.

Work package

Processor	60 MHz MC68060
Main memory	8 MB ECC DRAM
Storage interface	SCSI fitted for -333 assembly
Network interface	Ethernet fitted for -333 assembly

Engineering path



02 Pre-installation readiness

STEP	ACTION	ACCEPTANCE
01	De-energize chassis	Isolate the VME supply and handle the board using ESD protection.
02	Memory mezzanine	Inspect fitted memory hardware and compare the recorded 8 MB ECC configuration before startup.
03	Transition connections	Label SCSI, Ethernet and serial leads by actual connector and port, not by nearby board position.
04	Boot parameters	Record 172Bug environment variables and storage selection before removing the current controller.

Companion and host check

Confirm board revision, fitted memory mezzanine, rear transition hardware and software image in the quotation; peripheral devices and network cabling are separate.

03 Fit and interface

VME system processing

Run the established 68060 application with its original VME address and interrupt map.

SCSI storage path

Keep boot-device ID, termination and transition-module route aligned with the existing storage chain.

Ethernet host link

Restore network configuration and test the intended service endpoint after board startup.

Service and diagnostics

Use 172Bug and the installed serial console path to isolate boot, memory and interface problems.

Variant boundary

The -333 ordering row has 8 MB ECC DRAM and is not the 32 MB Petra II PA-652SE configuration.

04 Commission and prove

STEP	ACTION	ACCEPTANCE
01	Bus role	Check VME controller and interrupt settings against the chassis system map.
02	Acceptance run	Prove memory diagnostics, boot device, Ethernet communication and application I/O after replacement.

STEP	ACTION	ACCEPTANCE
03	Record the functional result	Pass firmware and memory checks, boot from the expected SCSI path, prove Ethernet communication and run the application I/O acceptance sequence.

System handover

Keep the original 172Bug environment and boot-device map with the machine record before exchanging the board.

05 Handover record

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

Diagnostic decisions

Why is the 172Bug record important when changing MVME172-333?	The monitor controls board initialization and boot selection. Saved environment values help distinguish a configuration mismatch from a faulty replacement.
Can MVME172-333 use a MVME172PA-652SE software image without review?	Do not assume so: the two boards have different documented memory architectures and platform implementations. Validate the board support package and peripheral map first.
What should be compared on the VME backplane for MVME172-333?	Match slot function, P1/P2 seating, controller role and rear I/O wiring to the installed chassis drawing.
What is a meaningful completion test for MVME172-333?	Pass firmware and memory checks, boot from the expected SCSI path, prove Ethernet communication and run the application I/O acceptance sequence.



Discuss the complete model and fitted revision with Apter Power.
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Technical basis: Motorola MVME172LX VME Embedded Controller Installation and Use, MVME172-2xx/3xx assembly list