Motorola MVME172PA-652SE

Installation & Commissioning | field workflow

Use this guide to prepare, fit, test and document the offered MVME172PA-652SE within its actual installed system.

Exact offered identity	MVME172PA-652SE
Engineering role	VME Embedded Controller with IndustryPack Slots
Installed-system reference	MVME172P2 Petra II VME embedded controller

Before work starts

The Motorola MVME172P2 ordering table explicitly assigns 60 MHz MC68060, 32 MB SDRAM, SCSI and Ethernet to MVME172PA-652SE. The user-supplied spacing VME172PA 652SE is retained only as an alternate search form.

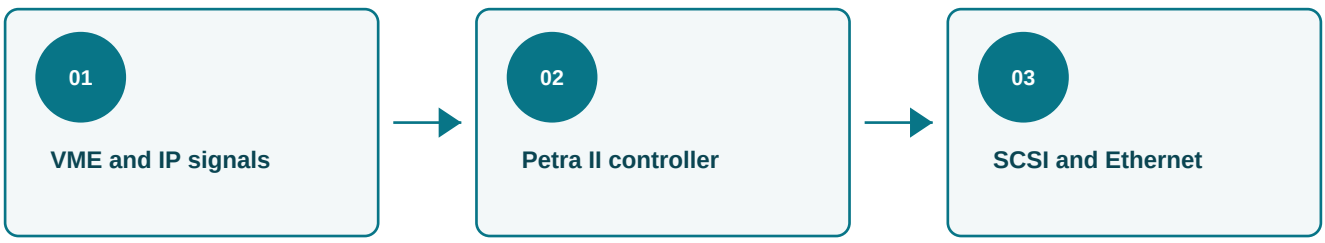
Record first

Send the complete MVME172PA-652SE marking, installed revision, quantity and system configuration with your enquiry.

Work package

Processor	60 MHz MC68060
Main memory	32 MB SDRAM
Mass-storage interface	SCSI fitted for this order code
Network	Ethernet fitted for this order code

Engineering path



02 Pre-installation readiness

STEP	ACTION	ACCEPTANCE
01	Power and ESD	Isolate the VME supply and use board-level ESD protection before handling the controller or IndustryPacks.
02	SCSI chain	Record cable orientation, device IDs and bus termination before moving storage connections.
03	Ethernet route	Identify the correct front or transition-module connector before reusing an existing network cable.
04	IndustryPack seating	Document slot positions and daughtercard wiring, then inspect mechanical seating after transfer.

Companion and host check

Confirm the controller board, installed IndustryPacks, battery condition and any transition hardware in the quotation; peripherals and application software are separate.

03 Fit and interface

Legacy VME control

Retain a compatible 68060 software environment and VME address map when replacing the embedded controller.

SCSI device access

Connect the documented storage path through the installed transition hardware and verify device addressing and termination.

Ethernet communication

Restore interface address and network configuration before proving controller-to-host traffic.

IndustryPack functions

Match the fitted IP modules and their channel wiring to the two available positions before application checkout.

Installed options

The PA-652SE ordering row confirms SCSI and Ethernet. Match each connection to the rear transition arrangement before transferring cables.

04 Commission and prove

STEP	ACTION	ACCEPTANCE
01	Boot data	Back up application and firmware settings that depend on nonvolatile or battery-backed storage.

STEP	ACTION	ACCEPTANCE
02	Functional proof	Check boot diagnostics, SCSI discovery, Ethernet traffic and each populated IP signal path against the original system record.
03	Record the functional result	Confirm firmware startup, SDRAM test, SCSI and Ethernet communication, then exercise each fitted IndustryPack channel with the application and record the result.

Memory and startup

Preserve the boot image and recorded SDRAM configuration. Battery-backed data can affect startup and field application settings.

05 Handover record

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

Diagnostic decisions

Why should battery-backed data be captured before replacing MVME172PA-652SE?	Stored clock, NVRAM or working configuration may participate in startup. Record and back up the original values so a cleared replacement is not mistaken for a hardware fault.
What would explain a boot device missing after MVME172PA-652SE replacement?	Inspect SCSI routing, device IDs, termination and firmware boot parameters before concluding that the processor board has failed.
How should a 68060 software image be assessed for MVME172PA-652SE?	Verify the existing operating-system build and board support package against the PA-652SE CPU, memory map and attached interfaces; do not assume a different MVME172 variant is binary-equivalent.
Which checks complete acceptance of MVME172PA-652SE?	Confirm firmware startup, SDRAM test, SCSI and Ethernet communication, then exercise each fitted IndustryPack channel with the application and record the result.

Discuss the complete model and fitted revision with Apter Power.
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Technical basis: Motorola MVME172P2 VME Embedded Controller with 2 IP Slots, 172IP-D2; MVME172P2 Installation and Use, V172P2A/IH