Motorola MVME172PA-652SE

Complete Product Information | decision matrix

Motorola MVME172PA-652SE is a Petra II VME embedded controller specified with a 60 MHz MC68060, 32 MB SDRAM, SCSI, Ethernet and two IndustryPack positions.

02 Configuration and interface matrix

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
Mezzanine positions	Two IndustryPack slots
Serial ports	Four EIA-232-D DTE ports in MVME172P2 architecture
Battery-backed SRAM	128 KB in MVME172P2 architecture
Flash	2 MB in MVME172P2 architecture
System bus	VME embedded controller with P1/P2 interfaces

03 Application roles and compatibility

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.

Practical compatibility boundary

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.

04 Product precautions

Power and ESD

Isolate the VME supply and use board-level ESD protection before handling the controller or IndustryPacks.

SCSI chain

Record cable orientation, device IDs and bus termination before moving storage connections.

Ethernet route

Identify the correct front or transition-module connector before reusing an existing network cable.

IndustryPack seating

Document slot positions and daughtercard wiring, then inspect mechanical seating after transfer.

05 Offered unit and lifecycle

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

Lifecycle status

MVME172PA-652SE: A current manufacturing or support phase for this complete marking is unconfirmed. For replacement planning, retain the Petra II board identity, IndustryPack population and SCSI/Ethernet configuration. Apter Power availability is separate from the manufacturer lifecycle phase.

Engineering decisions

How is MVME172PA-652SE distinguished from the MVME172-333 controller?	The PA-652SE ordering row specifies 60 MHz MC68060 with 32 MB SDRAM and the Petra II two-IndustryPack architecture; the LX-333 is a different controller with 8 MB ECC DRAM.
What must be checked before reusing a SCSI cable with MVME172PA-652SE?	Confirm the installed transition path, SCSI ID assignments and termination at both bus ends; a present connector does not validate a storage chain.
How should Ethernet startup be verified on MVME172PA-652SE?	Check link, board firmware interface selection, assigned address and successful traffic to the intended host, then test the application protocol.
What influences IndustryPack compatibility on MVME172PA-652SE?	The board exposes two IP positions, but function and field pinout come from the populated daughtercards and the system wiring. Compare both card identities before exchange.
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.

Discuss the fitted revision.
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Source: Motorola MVME172P2 VME Embedded Controller with 2 IP Slots, 172IP-D2; MVME172P2 Installation and Use, V172P2A/IH

Other Motorola references

Motorola MVME172-333

Motorola MVME133A-20

Motorola MVME2304 64-W5206C01B

Catalog navigation only; verify each model separately.