Motorola MVME172PA-652SE

Technical Reference | exact-model engineering dossier

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.

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

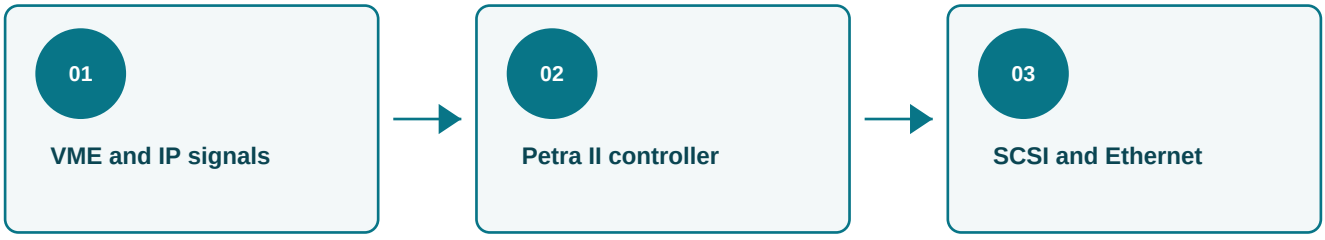
Functional identity

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.

Engineering decision points

Match the complete marking	Include MVME172PA-652SE and every visible revision or serial identity in your enquiry. Keep the same complete reference on the quotation.
Check the offered item before ordering	Request available label and connector photos. Have your maintenance team compare the offered MVME172PA-652SE with the installed equipment and applicable Motorola documentation.

Engineering path



Source basis

Motorola MVME172P2 VME Embedded Controller with 2 IP Slots, 172IP-D2; MVME172P2 Installation and Use, V172P2A/IH

02 System position and boundaries

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 system

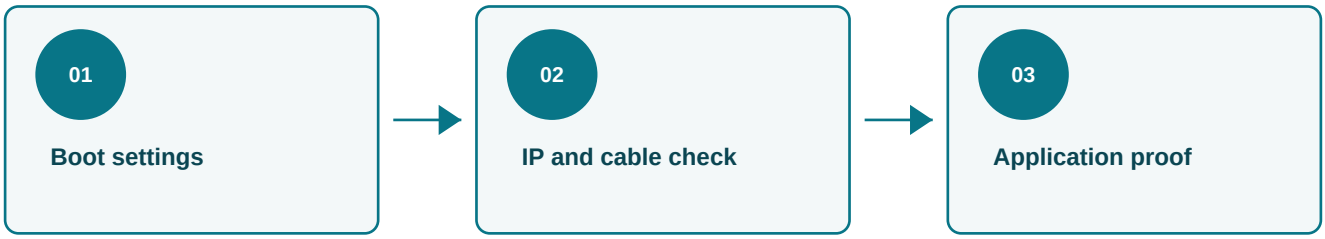
Confirm the controller board, installed IndustryPacks, battery condition and any transition hardware in the quotation; peripherals and application software are separate.

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

03 Verified technical data

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

Review sequence



04 Integration and diagnostic review

Installed options

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

Memory and startup

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

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.

Acceptance sequence

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

05 Engineering questions and source record

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.
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.

Document identity

Apter Power technical reference based on Motorola MVME172P2 VME Embedded Controller with 2 IP Slots, 172IP-D2; MVME172P2 Installation and Use, V172P2A/IH. The exact offered code and installed revision govern applicability.

Discuss the complete model and fitted revision with Apter Power.
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Other Motorola references

Catalog navigation only; confirm each complete model for its own installation.

Motorola MVME172-333	View product reference
Motorola MVME133A-20	View product reference
Motorola MVME2304 64-W5206C01B	View product reference