Motorola MVME31006E-1152

Complete Product Information | decision matrix

Motorola MVME31006E-1152 is a 6E MVME3100 VME computer specified with a 667 MHz MPC8540, 256 MB DDR SDRAM, 64 MB flash, Gigabit Ethernet and SATA.

02 Configuration and interface matrix

CPU	667 MHz MPC8540 PowerPC e500
DDR memory	256 MB
Soldered flash	64 MB
VME protocol	VME64 with 2eSST-capable series interface
Ethernet topology	Two Gigabit and one 10/100 ports in series design; rear access requires matching RTM
Serial ATA	SATA controller in -1152 order configuration
Expansion	PMC-X sites in MVME3100 architecture; check -1152 population
Firmware monitor	MOTLoad
Front-panel execution	IEEE handles, 6E

03 Application roles and compatibility

VME application processing

Use the MPC8540 board to run a supported PowerPC application with the installed VME address and interrupt map.

Backplane data exchange

Apply 2eSST only where peer boards and the chassis backplane are verified for that protocol; legacy VME transfers remain an integration consideration.

Networked control

Route the intended Gigabit or 10/100 port through its documented front or rear path and restore host addressing.

Peripheral expansion

Use PMC-X and SATA functions only with the fitted cards, power budget and software drivers recorded for the machine.

Practical compatibility boundary

The exact MVME31006E-1152 order row identifies its 667 MHz processor, 256 MB DDR, 64 MB flash, Gigabit Ethernet, SATA and IEEE handles. The higher-memory -1263 version is a different order code.

04 Product precautions

Isolate power

Shut down the VME chassis and connected peripherals before removing the processor.

6E mechanical match

Check IEEE handle, slot and rear-transition clearance for this 6E execution.

P2 routing

Identify which Ethernet and serial connections run through P2 and the installed RTM.

PMC and storage

Record fitted mezzanines, SATA cabling and boot media; do not assume the base board supplies them.

05 Offered unit and lifecycle

Condition: New, original product. Confirm the exact 6E board and any PMC cards, rear transition module, storage device and firmware image in the offer; these accessories are installation-dependent.

Lifecycle status

MVME31006E-1152: A current manufacturing or support phase for this complete marking is unconfirmed. For long-term maintenance, preserve the 6E-1152 firmware image, rear I/O layout and PMC configuration. Apter Power availability is separate from the manufacturer lifecycle phase.

Engineering decisions

Why should MVME31006E-1152 not be treated as the -1263 build?	The original ordering rows separate 667 MHz/256 MB/64 MB for -1152 from the higher processor and memory option. Firmware and software capacity planning must follow the exact row.
How is rear Ethernet access established for MVME31006E-1152?	Identify the P2 signals and the fitted MVME721-type RTM, then prove the selected network port with its host configuration.
What determines 2eSST operation with MVME31006E-1152?	The controller supports the protocol, but effective use requires a matching backplane and other boards. Validate bus negotiation and actual transactions in the installed chassis.
What should MOTLoad reveal before MVME31006E-1152 enters service?	Check startup diagnostics, 256 MB memory discovery, flash/boot selection and interface initialization before the plant application is loaded.
How should SATA devices be checked with MVME31006E-1152?	Confirm controller mode, cable route, device power and boot configuration, then verify the device is visible to the chosen software image.

Discuss the fitted revision.
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Source: SMART Embedded Computing MVME3100 Data Sheet, MVME3100-DS, 21Feb2020

Other Motorola references

Motorola MVME2304 64-W5206C01B

Motorola MVME5100

Motorola MVME172PA-652SE

Catalog navigation only; verify each model separately.