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HP E2459A

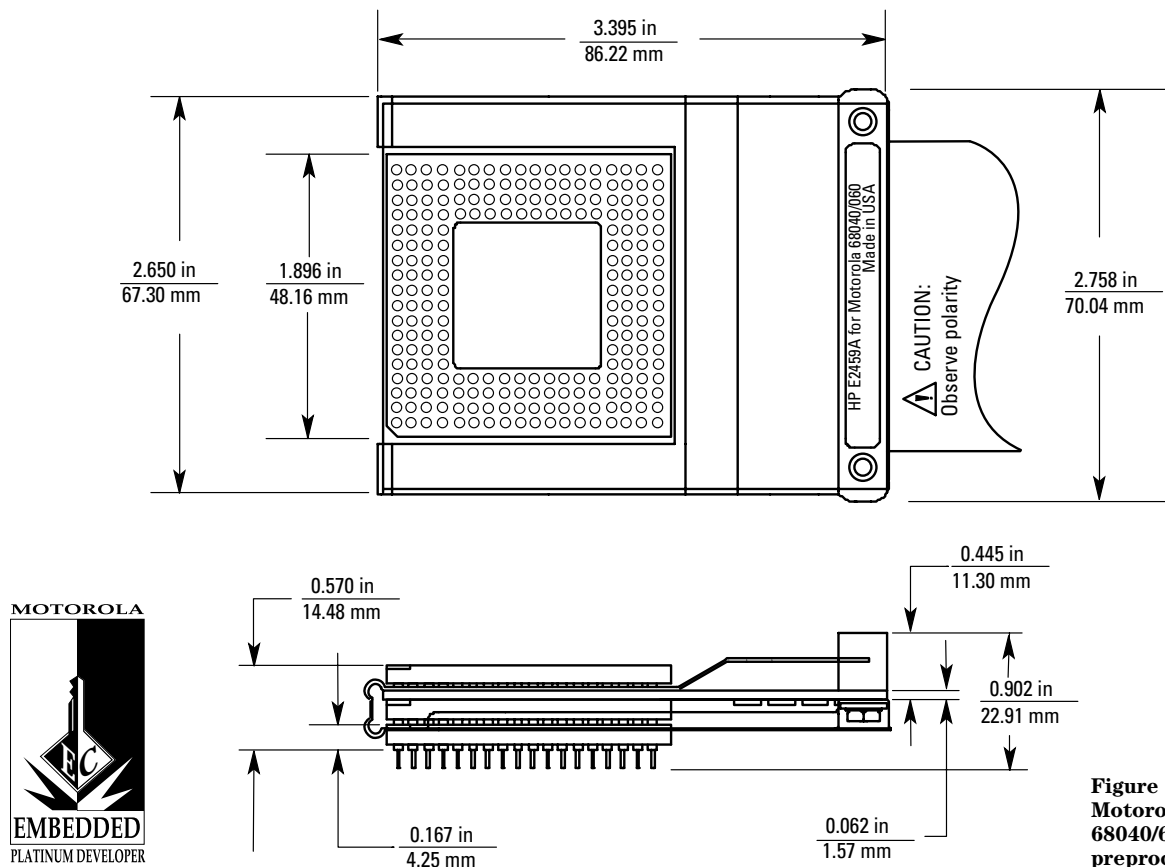
Motorola 68040 and 68060 Preprocessor Interface

For use with HP logic analyzers

The Hewlett-Packard E2459A preprocessor interface provides an easy way to connect a Hewlett-Packard logic analyzer to a target system using the Motorola 68040 or 68060 microprocessor. All necessary clocks are passed through by the preprocessor to the logic analyzer, ensuring that data is captured at the correct time.

Software is shipped with the product that automatically configures the logic analyzer, generating labels for address, data, and status signals. Included with the software is a disassembler which displays execution traces in 68040 or 68060 microprocessor mnemonics. Instructions which are pre-fetched but not executed

are marked in the trace display. Three modes of operation are available to the user: state-per-transfer, which provides a complete display of all bus activity; state-per-clock, which filters out wait and idle states; and timing analysis up to 500 MHz. Channel to channel skew is 1 ns.



Key Specifications

Pods

The preprocessor has eight pods available. For inverse assembly, six logic analyzer pods must be used. Eight pods would allow timing analyzer measurements of all processor signals.

Termination Adapters (TAs)

None are required as the pods are terminated on the preprocessor.

Logic Analyzers Supported

HP 1660A/61A, 16550A, 16554A, 16555A (two each of the HP 16554A or 16555A are required for inverse assembly).

Processors Supported

Motorola 68040, 68EC040 and 68LC040 in a 179-pin PGA package up to 50 MHz.

Motorola 68040V and 68EC040V in a 182-pin PGA package up to 50 MHz.

Motorola 68060 in a 206-pin PGA package up to 66 MHz.

Motorola 68EC060 and 68LC060 in a 240-pin PQFP package is supported by an optional adapter E5334A.

Optional Adapter Available

HP E5334A adapts the HP E2459A to the 68EC060 and 68LC060 in the 240-pin CQFP package.

Signal Line Loading

10 pF on all signals.

For more information, call your local HP sales office listed in your telephone directory, or an HP regional office listed below:

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