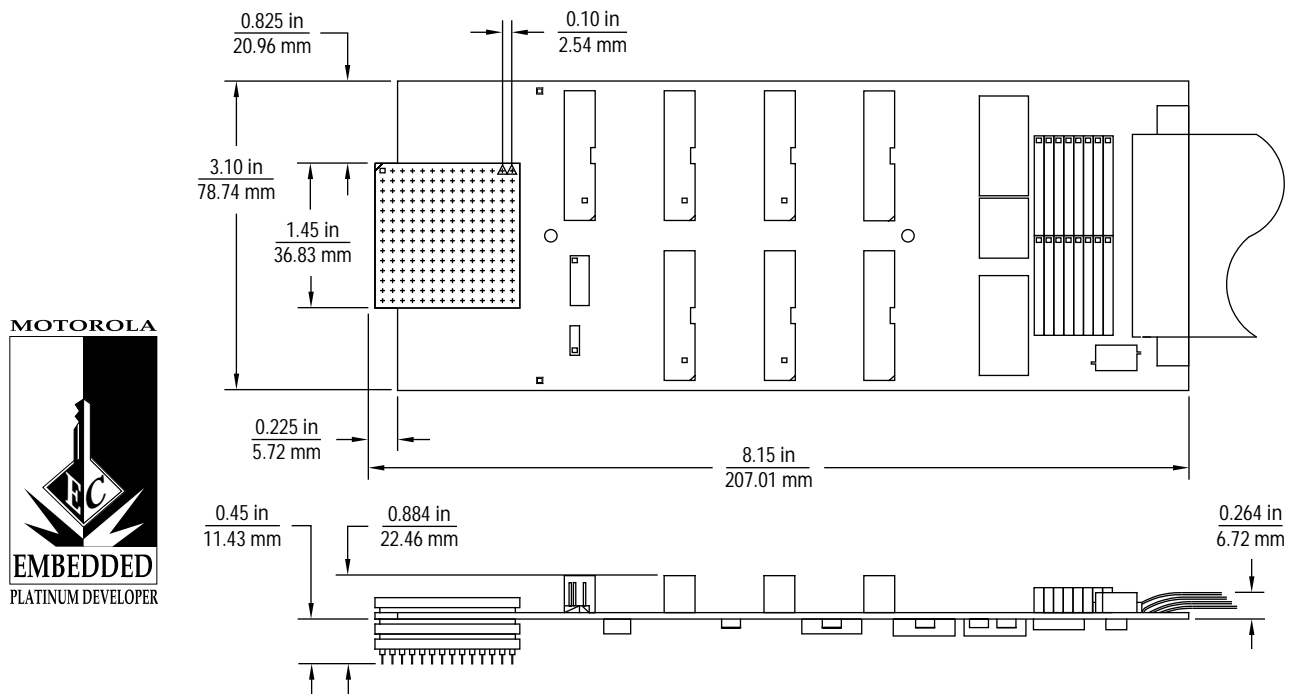# HP E2439B

Motorola 68F333 Preprocessor Interface

**For use with
HP logic analyzers**

The Hewlett-Packard E2439B preprocessor interface provides an easy way to connect a Hewlett-Packard logic analyzer to a target system using the Motorola 68F333 microcontroller. All necessary clocks are generated 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 CPU32 microcontroller mnemonics. Instructions which are pre-fetched but not executed

by a coprocessor, or executed in background mode, are marked in the trace display. When the 68F333 is configured appropriately, the HP E2439B will capture and disassemble internal (Show) cycles. Bus cycle filtering is also provided to selectively remove different bus cycle types from the display.

MOTOROLA

EMBEDDED

PLATINUM DEVELOPER

**HP E2439B
Motorola 68F333
preprocessor**

Key Specifications

Pods
The preprocessor interface has connections for seven logic analyzer pods. For disassembly four pods must be used. Seven pods would allow timing measurements of all processor signals.

Termination Adapters (TA's)
None are required for state analysis as the pods are terminated on the preprocessor interface. One TA (01650-63203) is required for each pod used for timing analyzer measurements.

Logic Analyzers Supported
HP 1650B, 1652B, 1654B, 1660A/61A/62A,16510B,16511B, 16540/41[A-D], 16542A, 16550A, 16554A, 16555A

Microcontrollers Supported
The Motorola 68F333 microcontroller in a 160-pin PQFP package (requires optional adapter shown below) at a maximum clock speed of 20 MHz, and all other microcontrollers made by other manufacturers that comply with Motorola 68F333 specifications.

Optional Adapters Available
HP E5335A adapts the HP E2439B to a 160-pin PQFP/CQFP package.

Signal Line Loading
8 pF on all signals except for CLKOUT which has 40 pF.