

HP E2413C

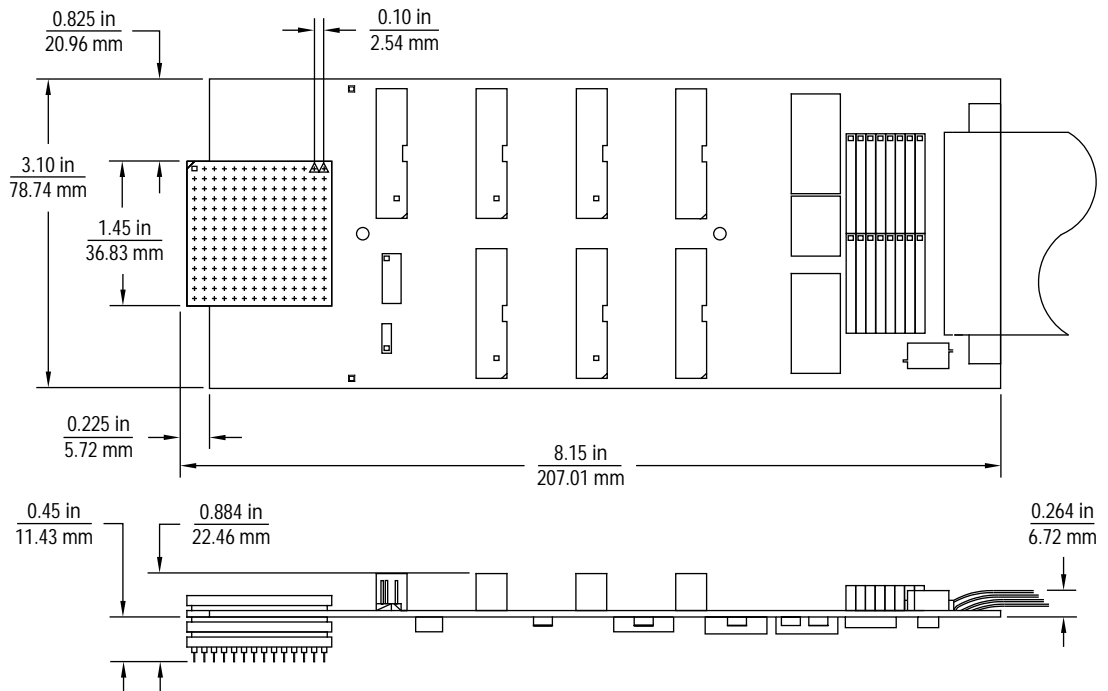
Motorola 68332 Preprocessor Interface

**For use with
HP logic analyzers**

The Hewlett-Packard E2413C preprocessor interface provides an easy way to connect a Hewlett-Packard logic analyzer to a target system using the Motorola 68332 microcontroller. 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 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 68332 is configured appropriately, the HP E2413C will capture and disassemble internal (Show) cycles. Bus cycle filtering is also provided to selectively remove different bus cycle types from the display.



**HP E2413C
Motorola 68332
preprocessor**



Key Specifications

Pods

The preprocessor interface has connections for 7 logic analyzer pods. For disassembly 4 pods must be used. 7 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 1660A/61A/62A

HP 16540/41[A-D], 16542A, 16550A, 16554A, 16555A, 16556A

Microcontrollers Supported

Motorola 68331, 68332, and 68335 microcontrollers in a 132-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 68332 specifications.

Optional Adapters Available

HP E3417A adapts the HP E2413C to a 132-pin PQFP/CQFP package.

Signal Line Loading

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

For more information on Hewlett-Packard Test & Measurement products, applications or services please call your local Hewlett-Packard sales offices. A current listing is available via Web through Access HP at <http://www.hp.com>. If you do not have access to the internet, please contact one of the HP centers listed below and they will direct you to your nearest HP representative.

United States:

Hewlett-Packard Company
Test and Measurement Organization
5301 Stevens Creek Blvd.
Bldg. 51L-SC
Santa Clara, CA 95052-8059
1 800 452 4844

Canada:

Hewlett-Packard Canada Ltd.
5150 Spectrum Way
Mississauga, Ontario
L4W 5G1
(905) 206 4725

Europe:

Hewlett-Packard
European Marketing Centre
P.O. Box 999
1180 AZ Amstelveen
The Netherlands

Japan:

Yokogawa-Hewlett-Packard Ltd.
Measurement Assistance Center
9-1, Takakura-Cho, Hachioji-Shi,
Tokyo 192, Japan
(81) 426 48 3860

Latin America:

Hewlett-Packard
Latin American Region Headquarters
5200 Blue Lagoon Drive
9th Floor
Miami, Florida 33126
U.S.A.
(305) 267 4245/4220

Australia/New Zealand:

Hewlett-Packard Australia Ltd.
31-41 Joseph Street
Blackburn, Victoria 3130
Australia
131 347 ext. 2902

Asia Pacific:

Hewlett-Packard Asia Pacific Ltd
17-21/F Shell Tower, Time Square,
1 Matheson Street, Causeway Bay,
Hong Kong
(852) 2599 7070

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