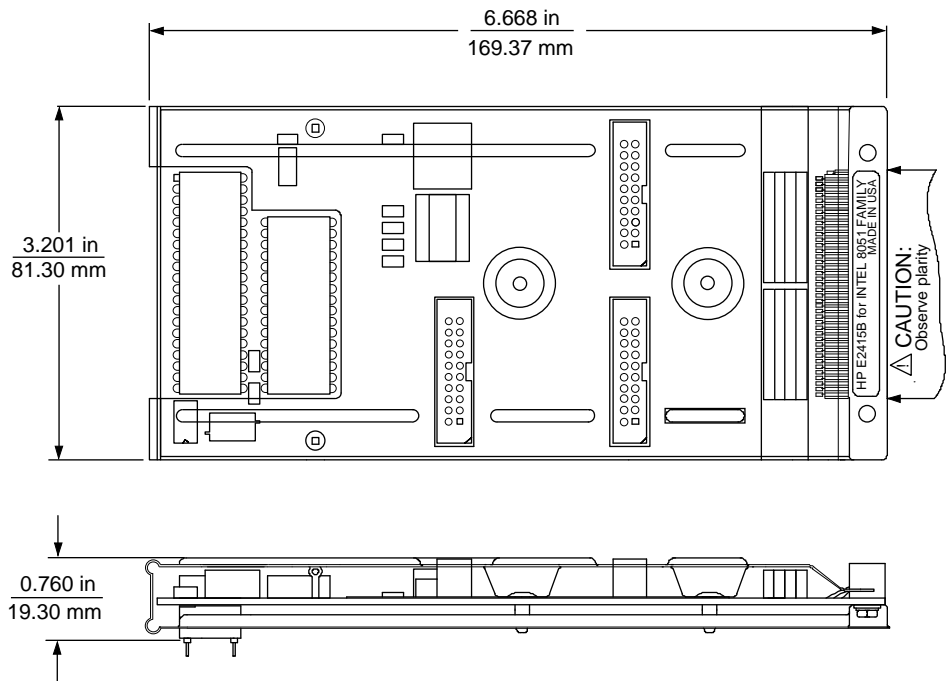


HP E2415B

Intel 8051 COMPATIBLE Preprocessor Interface

**For use with HP
logic analyzers**

The Hewlett-Packard E2415B preprocessor interface provides an easy way to connect a Hewlett-Packard logic analyzer to a target system using an Intel 8051 compatible 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 8051 microcontroller mnemonics. All code execution is visible, including internal memory, which can be mapped to an external memory on the preprocessor interface.



**The HP E2415B
preprocessor
interface**

Key Specifications

Pods

The preprocessor interface has connections for six logic analyzer pods. For disassembly, three pods must be used. Six 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
16550A, 16554A, 16555A, 16556A

Microcontrollers Supported

All microcontrollers which conform to the architecture, instruction set, and packaging of the Intel 8051, which is in a 40-pin DIP. Support for the 44-pin PLCC package may be obtained by ordering an adapter from Emulation Technology (408 982-0660). In addition, the Intel 80251 microcontroller is also supported by the HP E2415B.

Signal Line Loading

State analysis only – each signal ≤ 14 pF.

State and timing analysis – each signal ≤ 22 pF.

State and timing analysis with external memory installed – each signal ≤ 32 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

Technical information in this document is subject to change without notice.