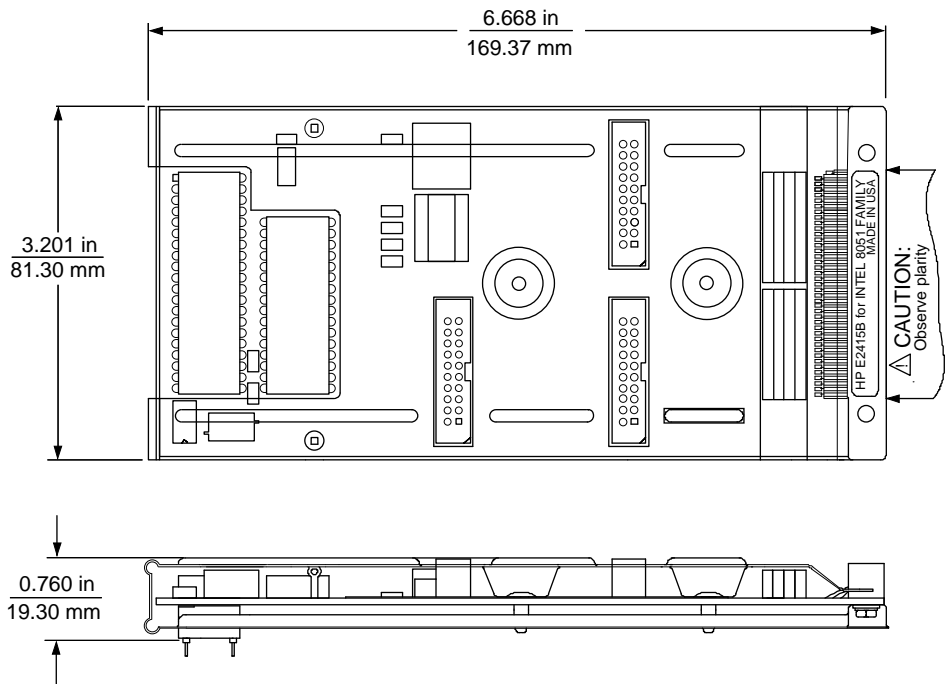


# HP E2415B

## 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  $\leq 14$  pF.

State and timing analysis – each signal  $\leq 22$  pF.

State and timing analysis with external memory installed – each signal  $\leq 32$  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  
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