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## HP E2434 Series

# Intel 80C186 and 80C188 Family Preprocessor Interfaces

**For use with  
HP logic analyzers**

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The HP E2434A, E2434B, and E2434C preprocessor interfaces provide an easy way to connect an HP logic analyzer to a target system using Intel microprocessors: 80C186 (including XL and EA versions); 80C186EB; 80C186EC. The HP E2434A preprocessor supports both the "compatible" and "enhanced" modes of the 80C186 and 80C186XL. All necessary clocks are generated by the preprocessor ensuring that data is captured at the correct time. Software is shipped with the product that automatically configures the logic analyzer by generating labels for address, data, and status signals. Included with the software is a disassembler that displays execution traces in 80C186 microprocessor mnemonics. Instructions that are prefetched, but not executed, are marked in the trace display.

### **Timing Analysis Support**

Each preprocessor provides unbuffered timing analysis for all signals.

### **Parametric Measurements**

When using QFP versions of the chip, the preprocessor provides probing points to take parametric measurements.

### **Pods Required**

Each preprocessor has three connectors available for state analysis with additional connectors for timing analysis for all signals. For disassembly three pods must be used. All signals used in disassembly can be double probed for state and timing analysis. Four pods for E2434A, five pods for E2434B and six pods for E2434C allow timing measurements of all processor signals.

### **Termination Adapters (TAs)**

The three state analysis connectors are terminated on each preprocessor. For timing analysis, one TA (p/n 01650-63203) is required per pod, or as an alternative, general-purpose probes may be used.

### **Logic Analyzers Supported**

- HP 1660A, 1661A, 1662A
- HP 16542A
- HP 16550A, 16554A, 16555A, 16556A

## HP E2434A for the Intel 80C186 and 80C188 Microprocessors, including XL and EA versions

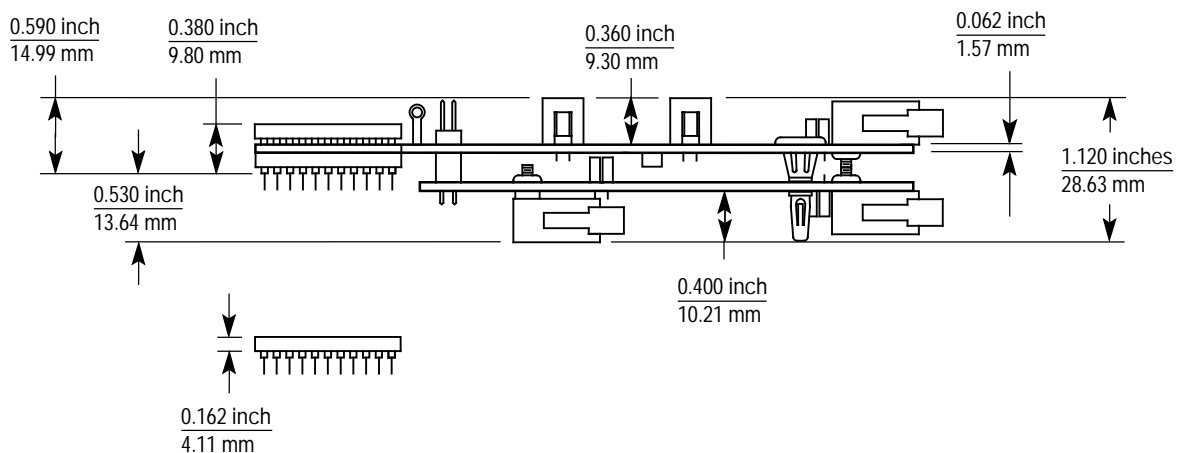
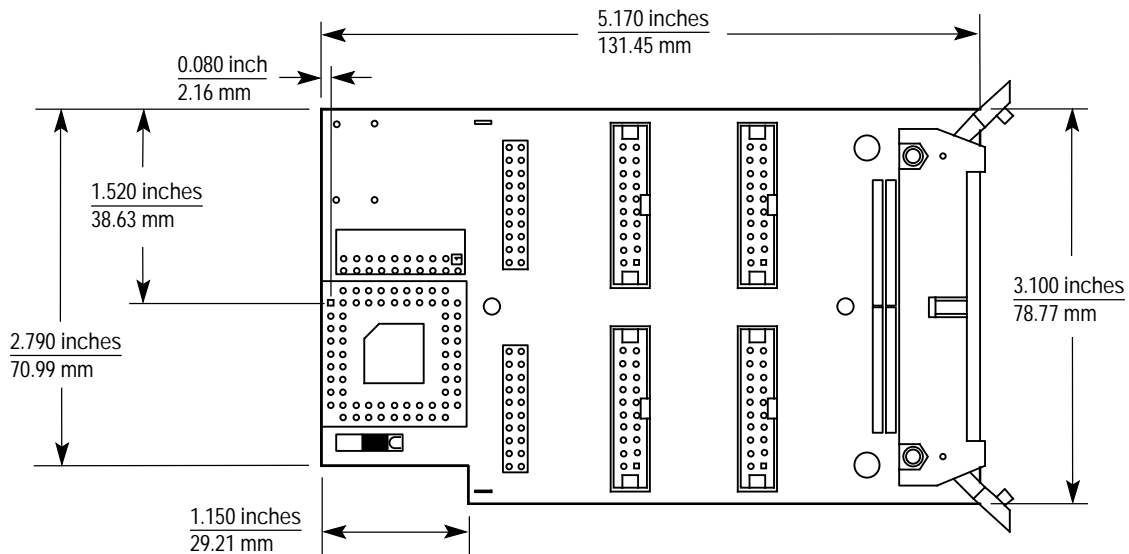
### Processors Supported

80C186, 80C188 68-pin PGA and 68-pin PLCC through 16 MHz.  
 80C186EA, 80C188EA 68-pin PLCC through 20 MHz.  
 80C186XL, 80C188XL 68-pin PGA and PLCC through 20 MHz.  
 E2434A Option #1CC supports the 80-pin QFP 80C186XL, 80C188XL. (Note: QFP for 80C186EA, 80C188EA is not currently supported).

### Adapters Available

PLCC adapters are included with the product. To order extra adapters, use the following part numbers:

PLCC/PGA	IC Chip Carrier Socket	1200-1722
PGA/PLCC	Adapter	E2434-63201



# HP E2434B for Intel 80C186EB and 80C188EB Microprocessors

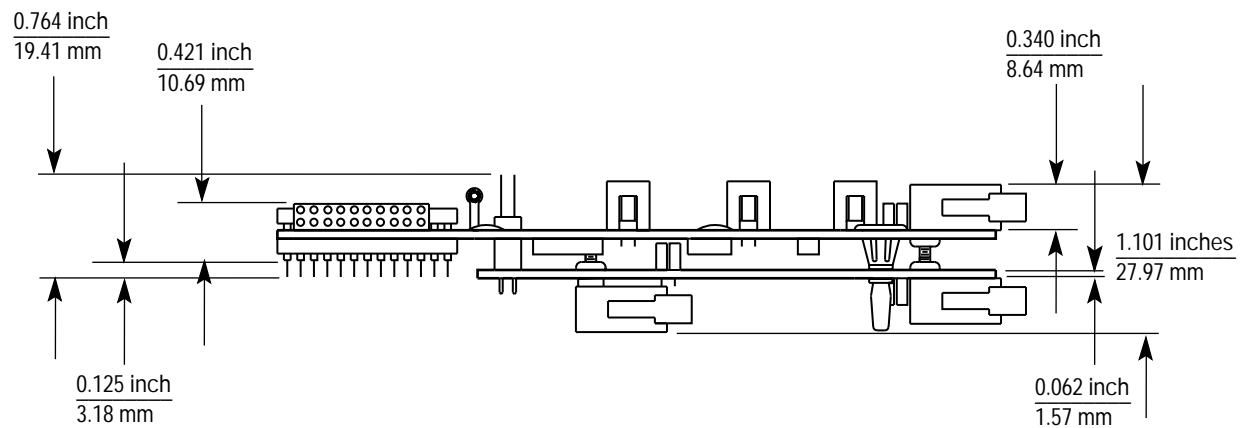
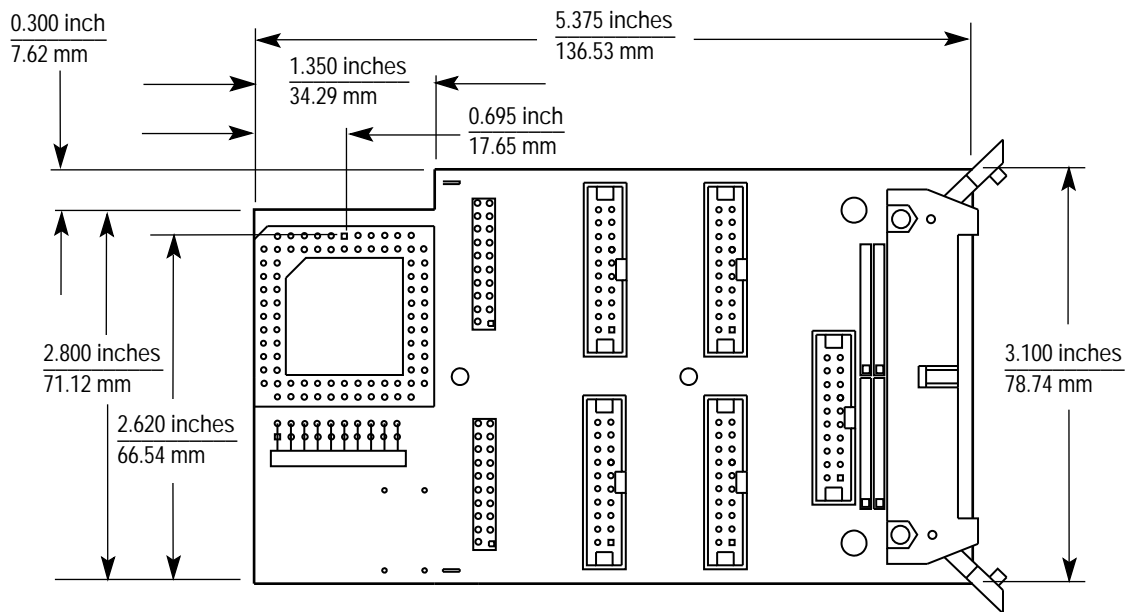
## Processors Supported

80C186EB, 80C188EB 84-pin PLCC through 16 MHz.  
 E2434B Option #1CC supports the 80-pin QFP 80C186EB, 80C188EB.

## Adapters Available

PLCC adapters are included with the product. To order extra adapters use the following part numbers:

PLCC/PGA	IC Chip Carrier Socket	1200-1751
PGA/PLCC	Adapter	1200-1752



## HP E2434B

## HP E2434C for Intel 80C186EC and 80C188EC Microprocessors

### Processors Supported

80C186EC, 80C188EC 100-pin, rectangular and square QFP (EIAJ) through 16 MHz.

### Adapter Available

No adapters are included. The user must order one of the following: for connection to the 80C186EC or 80C188EC in a 100-pin rectangular package, order HP E3424A. For connection to the 80C186EC or 80C188EC in a 100-pin square package, order HP E3432A.

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

#### 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  
31 20 547 9858

#### 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

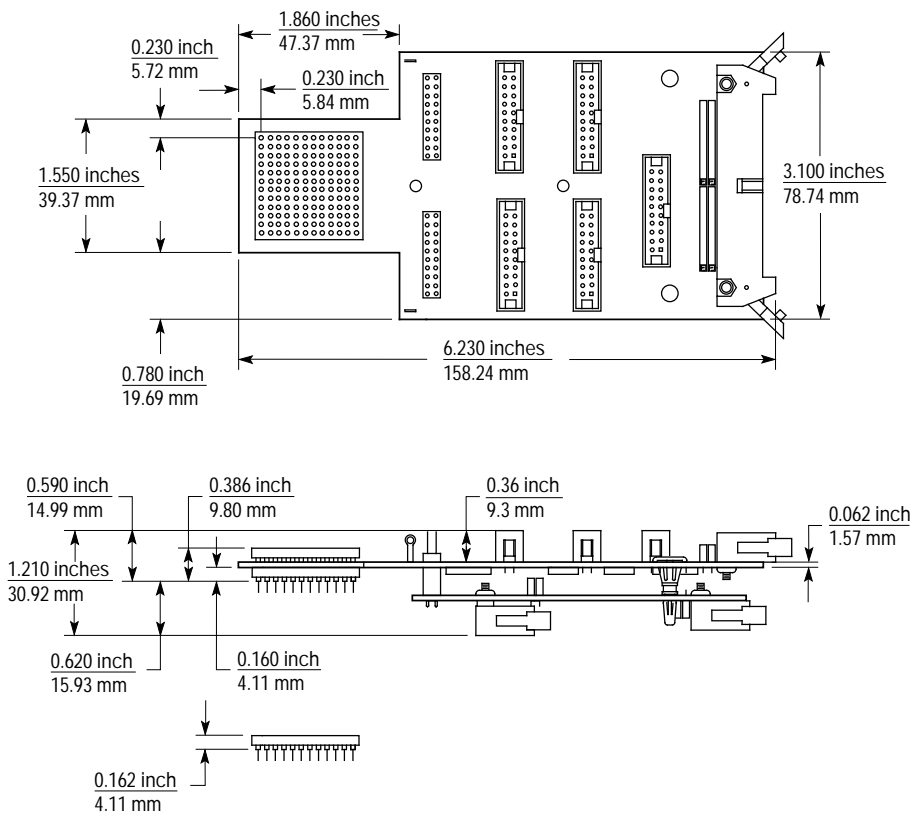
#### Asia Pacific:

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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### HP E2434C