HP 16500H and 16500L Interface Modules

Product Overview

Bring logic analysis to your computer with the Hewlett-Packard 16500H and 16500L interface modules. They connect the HP 16500B Logic Analysis System to Ethernet local area networks (LANs) to support both hardware and software development. The HP 16500H,L modules also interface the 16500B mainframe to the HP 16501A expansion frame and the HP 16505A prototype analyzer.

A Critical Link to Your Software Development Platform
Use the HP 16500H,L interface modules with an HP 16500B system and the HP B3740A software analyzer, combining the versatility of a logic analyzer with a modern, windowed interface tailored to the needs of software developers. The software analyzer gives you a correlated view of real-time code in both microprocessor mnemonics and high-level source code with extensive symbolic support.

Remote Viewing and Control
Now, you can view your HP 16500B display from a networked computer via Ethernet LAN using X Window System software. With an HP 16500H,L LAN interface module installed, this logic analyzer responds to mouse and keyboard inputs from your workstation, PC, or any other computer supporting TCP/IP networking and X11R5.

<table>
<thead>
<tr>
<th>Features</th>
<th>HP 16517A and 16550-Series Modules</th>
<th>HP 16520A and 16532A</th>
<th>Other HP 16500B Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>X Window Interface</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>HP B3740A Software Analyzer</td>
<td>36550-Series Modules Only</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>ASCII Data Files</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Screen Image Files</td>
<td>Color and Black and White</td>
<td>Color and Black and White</td>
<td>Color and Black and White</td>
</tr>
<tr>
<td>Programming Via LAN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Table 1. Ethernet LAN features available in HP 16500B measurement modules.

Easier Documentation and Archiving
Use File Transfer Protocol (FTP) commands or the Network File System (NFS) to move screen image files, ASCII data files, and binary data/configuration files across your network. Then, add these files into your documentation or archive them for later use. See table 1 for information about instrument module support.
Programming Control Over the LAN
The same programming commands that control an HP 16500B via HP-IB and RS-232 work with the LAN interface.

Which Interface Module is Right for You?
The HP 16500H has a 10Base-T (twisted pair) LAN interface and a high-speed parallel interface designed specifically to work with the HP 16505A prototype analyzer. Choose the HP 16500H interface module if you plan to use an HP 16505A with your 16500B mainframe in the future, or if you will be connecting to your LAN with 10Base-T twisted pair media.

The HP 16500L has a 15-pin AUI connector and can work with either 10Base2 (coaxial cable) or 10Base-T media attachment units to make a connection to your Ethernet LAN. The HP 16500L cannot interface to an HP 16505A prototype analyzer. See table 2.

Using an HP 16501A Expansion Frame
Either an HP 16500H or a 16500L interface module will connect an HP 16500B mainframe to an HP 16501A expansion frame. One of these modules must be used to connect an HP 16500B to an HP 16501A. A special connector for the expansion frame interface cable is located on each of the interface modules. Operation with an HP 16501A is independent of LAN usage.

Installation Information
An HP 16500H or 16500L interface module that is ordered with an HP 16500B mainframe will come installed in the mainframe. Modules and mainframes that are ordered separately will require installation. Instructions and required tools are provided with the interface module.

Table 2. Features of the HP 16500H and 16500L interface modules for the HP 16500B mainframe.

<table>
<thead>
<tr>
<th>Model</th>
<th>Ethernet Physical Interface</th>
<th>HP 16501A Interface</th>
<th>HP 16505A Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP 16500H</td>
<td>10Base-T (twisted pair)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>HP 16500L</td>
<td>15-pin AUI (requires a MAU)</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

Ordering Information

<table>
<thead>
<tr>
<th>HP Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>16500H</td>
<td>Interface module for the HP 16500B to a 16505A</td>
</tr>
<tr>
<td>16500L</td>
<td>Interface module for the HP 16500B</td>
</tr>
<tr>
<td>28641B*</td>
<td>Media attachment unit (MAU) for 10Base2 (coaxial cable) network connection</td>
</tr>
<tr>
<td>286659*</td>
<td>Media attachment unit (MAU) for 10Base-T (twisted pair) network connection</td>
</tr>
</tbody>
</table>
* The HP 16500L requires a media attachment unit. An equivalent model from another vendor can be substituted.

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 J eeep 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.

Printed in U.S.A. 3/1/95
5963-6710E