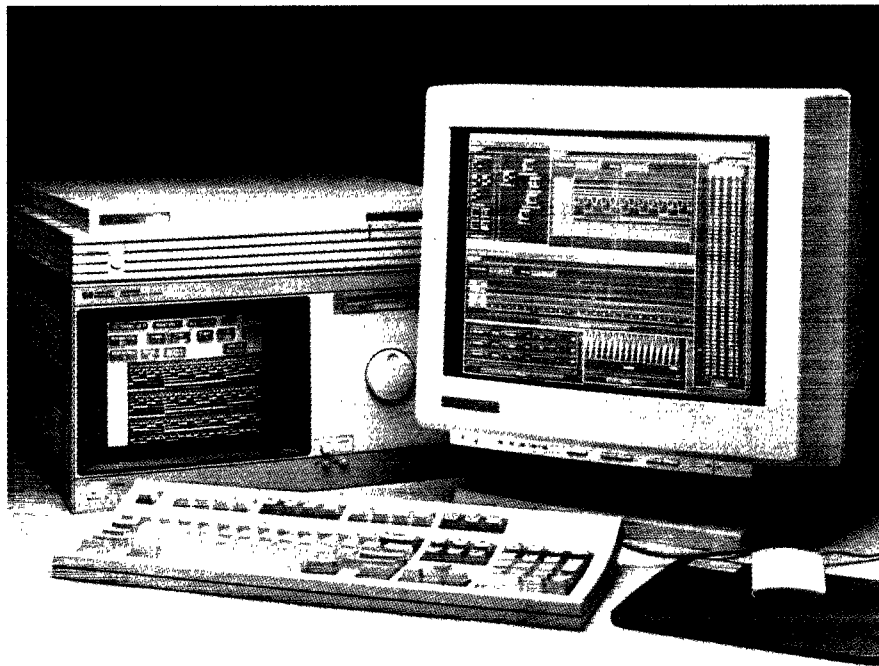


LOGIC ANALYZERS

Prototype Analyzer

HP 16505A



The HP 16505A prototype analyzer couples powerful analysis, the benefits of a windows interface, and the measurement capabilities of the popular HP 16500B logic analysis system.

Breakthrough Visualization and Analysis

The HP 16505A prototype analyzer helps you quickly solve your toughest design integration and debug problems. The HP 16505A couples powerful analysis, the benefits of a windows interface and the measurement capabilities of the popular HP 16500B logic analysis system in one, easy to learn and use measurement system.

You can move from a chart or histogram overview of bus activity to detailed timing or analog waveforms in seconds, using the HP 16505A visual measurements paradigm.

The HP 16505A is a measurement system for the entire design team. Hardware engineers will appreciate the large waveform displays for viewing timing and analog activity, while software developers can view real-time trace data in familiar formats.

Quickly Create, View, and Modify Measurements

Rapidly set up and tear down measurements as you test ideas about the nature of your system crashes. The HP 16505A measurement tools are always available at your fingertips. All measurement tools are stored in the 'toolbox', located on the main window. You simply 'drag and drop' the appropriate instrument, analysis or display tool onto the workspace and connect the tools together.

Instrument tools are based on the popular HP 16500 series measurement module configuration, format, and trace menus. Significant improvements in usability have been added to the instrument tools, including sizable displays, drag and drop placement of labels, and new trigger macros.

Time-Related Measurements

The data you capture and observe is time-correlated. This means you can maintain timing relationships across measurement domains, such as state, timing and chart. You can even create unique displays, such as variable values over time, all time-correlated with one another. Time-correlation means you can quickly move back and forth between windows using markers to uncover hidden relationships in your data.

Unleash the Power of Your HP 16500B Logic Analyzer

The HP 16505A is an analysis and display accessory for the popular HP 16500B logic analysis system mainframe. The HP 16505A works in conjunction with popular measurement modules to provide a complete prototype analysis environment. You have full control over the HP 16500B and its measurement modules from the HP 16505A. A high-speed data port between the HP 16500B and the HP 16505A ensures fast screen update rates. Supported measurement modules include:

- HP 16550A 100-MHz State/500-MHz Timing; 4K depth
- HP 16554A 70-MHz State/250-MHz Timing; 500K depth
- HP 16555A 125-MHz State/500-MHz Timing; 1M depth
- HP 16517A/18A 4-GHz Timing/1-GHz State
- HP 16532A 1-GSa/s Digitizing Oscilloscope

The HP 16505A is designed to sit on top of the HP 16500B system. The HP 16505A includes everything you need to begin making measurements except a standard SVGA monitor.

Compatibility with Your HP 16500B System Investment

The HP 16505A is compatible with your existing HP 16500B system and measurement modules. Module configuration files, data files and inverse assembly files can all be used as the basis for starting measurements with the HP 16505A. If you currently own a HP 16500A frame, you can upgrade to a HP 16500B frame using the HP 16500U upgrade kit. See page 419 for more information.

Integration Into Your Windowed, Network Environment

The HP 16505A uses the power of X-Windows to bring prototype analysis to your windowed computing environment. You can remotely control and view the entire measurement system from your office or from a remote site.

The HP 16505A provides a *file out* tool. Store away just the measurements and data you need, and come back to the problem at any time. Or, use these tools to transfer measurement data to your workstation or PC for further analysis.

Key Literature

HP 16505A Prototype Analyzer, p/n 5962-0173E.