

DATA COMMUNICATIONS TEST EQUIPMENT

Protocol Analyzers

Model HP 4851C and HP 4852A

511



HP 4851C/HP 4852A

HP 4851C and HP 4852A Protocol Analyzers

The HP 4851C (17.2 Mbps) and HP 4852A (34 Mbps) are portable protocol analyzers used for troubleshooting during installation, maintenance and design of data-communication networks and equipment.

Applications

The HP 4851C and HP 4852A allow you to monitor and decode data transmissions, test remote facilities from your location, simulate network components, and perform bit error rate tests. They can also be used as synchronous terminals or to install and maintain DTE equipment, and to perform link level performance analysis. Protocols that can be used include X.25, SDLC, HDLC, X.25, SNA, DDCMP and user-defined protocols. The HP 4852A also tests X.21 and DDDN.

HP 4851C and HP 4852A Features

- Autoconfigure to automatically determine line parameters and to monitor data with the push of a key.
- 256K microchip memory to store 419K bytes of data, timing, load status, programs and configurations.
- RS-232 video port to view data externally.
- Ports to all RS-232C/V.24 ASCII printers via a separate port.
- Nonvolatile memory to store data, programs and configurations.

Additional HP 4852A Features

- 64 Mbps testing with full functionality
- 4MB byte extended volatile capture buffer (Option 001)
- 128K bytes nonvolatile application storage (Option 002)
- Unlimited remote testing
- Error timing to allow timing measurements to be made on-screen
- Enhanced programming features via time user comments, software triggering, subroutines
- Buffer data filtering to maximize capture buffer
- Selective store to disk to capture only events of interest
- Complete disk copying capability

Datagram Testing Solutions

Data Communications Test Library

This library of preventive tests is standard with every HP 4851C and HP 4852A as an additional cost. The library contains 36 general purpose monitors and simulate programs on a single 3.5" diskette to help you analyze your network quickly and easily. Programs are written to diagnose common datagram problems. The tests can be tailored for special configurations and applications. The library also contains installation and acceptance tests for printers and terminals.

X.25 and SNA Link Level Performance Analysis

Link level statistics packages, the HP 18100D for the HP 4851C and the HP 18264A for the HP 4852A, transform the measurements into statistical performance analyzers for the link level (level 2) of SNA and X.25 networks (SDLC and HDLC).

These solutions provide a new way for network troubleshooters to look at data-communication links. Key link events indicate the health

of the network and are displayed in columns. Bar charts show line utilization and time. These statistics can be stored to disk and reviewed at a later time.

DTE Installation and Maintenance

If you have IBM DTE or compatible terminal systems, you know that problems with newly installed or suspect systems can devastate users and users. The HP 18100D (HP 4851C) and HP 18264A (HP 4852A) DTE installation and maintenance software packages provide easy, automatic, offline testing of multiple DTE clusters by simulating many of the functions of a host computer.

X.25 Troubleshooting

Both analyzers provide X.25 troubleshooting. The HP 4852A also has an enhanced X.25 analysis package (HP 18266A) which allows you to create five custom X.25 trouble diskettes. A display is also provided to decode all components of multi packet including facilities, calling/called addresses, cause and diagnostic codes, registration and call user data. The HP 18264A X.25 Test Library and Analyzer provides a library of X.25 test routines in a level 2 emulator, and a procedure for using tests to troubleshoot X.25 installations.

ISDN Solutions

The HP 4852A has added ISDN capability to its array of troubleshooting solutions. The HP 18270A ISDN basic rate channel access and analyzer package offers capabilities for ISDN access troubleshooting in a portable protocol analyzer for those designing or managing ISDN networks. This latest offering provides the ability to monitor and simulate ISDN devices and networks, giving the edge needed to handle the demands of ISDN communications.

Ordering Information

	Price
HP 4851C Protocol Analyzer (interface port not included)	\$3,740
Opt 100 HP 18100A RS-232C/V.24 and RS-449/422A/422A interface port	\$900
Opt 100 HP 18179A RS-232C/V.24 interface port with full breakout box	\$650
Opt 100 HP 18160A RS-232C/V.24 and V.23 interface port	\$1,100
Opt 000 1 Year additional hardware service	\$100
HP 182310 SNA, DDCMP, X.25 analysis	\$100
HP 182320 DTE/installation and maintenance	\$100
HP 182330 X.25 and SNA link level performance analyzer	\$100
HP 4852A Protocol Analyzer (interface port not included)	\$6,070
Opt 100 Enhanced memory (pin)	\$1,200
Opt 100 HP 18174A RS-449/422A/422A interface port	\$900
Opt 100 HP 18160A RS-232C/V.24 and RS-449/422A/422A interface port	\$900
Opt 100 HP 18179A RS-232C/V.24 interface port with full breakout box	\$650
Opt 100 HP 18266A X.25 and RS-232C/V.24 interface port	\$1,100
Opt 100 HP 18171A V.15 interface port	\$600
Opt 100 HP 18264A RS-232C/V.24 and V.15 interface port	\$1,100
Opt 000 1 Year additional hardware service	\$175
HP 182680A X.25 and RS 110/V.24 interface port	\$100
HP 182610 SNA analysis	\$100
HP 182620 DTE installation and maintenance	\$100
HP 182640 X.25 and SNA link level performance analyzer	\$100
HP 182650 DDCMP analysis	\$100
HP 182660 Enhanced X.25 analysis	\$100
HP 182670 X.25 test library and emulator	\$100
HP 182680 C.821 RRRT	\$100
HP 182700A ISDN basic rate interface and analyzer	\$3,500
HP 4851C and HP 4852A Common Accessories	
HP 182600A Video print interface	\$100