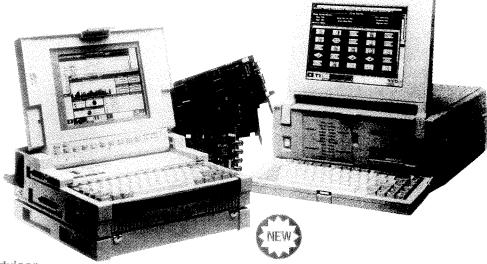
500

PROTOCOL ANALYZERS

LAN and WAN Internet Advisor, Network Advisor HP 4957PC

- · Portable
- Low dost
- High performance
- · PC compatible

- WAN from 50 b/s to 2.048 Mb/s
- LAN interfaces for Ethernet, TR, and FDDI
- LAN and WAN under one handle
- Award-winning products



HP Internet Advisor

Quickly isolate datacom problems with the portable HP Internet Advisor Series—the integrated protocol analyzers with the most compelling combination of value and performance available. The Internet Advisor combines a complete protocol analyzer for wide-and local-area-network testing with a powerful, ruggedized, 486-based personal computer—all in a lightweight, easy-to-carry package.

Test WAN and internet links from 50 b/s to 2.048 Mb/s over RS-232 and V.35, as well as on TI and CEPT-EI interfaces. Perform network troubleshooting on Ethernet and token ring LANs. Monitor and decode data traffic, perform real-time statistical analysis of network traffic (including LAN traffic over WANs), simulation/emulation of network protocols, analyze protocol errors and link utilizations, and perform complete bit-error-rate measurements with the Internet

Solving problems is one keystroke away with HP Toolkit. Teolkit makes most measurements accessible from the top level window which can be customized for your specific needs. Prewritten tests are available for all major protocols, including LAN traffic analysis over WAN, and all measurements have built in-help screens.

The undercradle allows additional interfaces and PC eards to be added to the system while maintaining the high level of portability. Various combinations of LAN and WAN interfaces can be integrated with other PC functionality including TIMS and softmeters under one handle. Future additions include ATM and HOBBaseVG AnyLAN interfaces.

WAN Solutions—Unmatched Monitoring and Analysis
Power

- Winner of Data Comm Magazine Hot Products Award (January, 1994) and Interop '93 European Networking Innovation Award (November, 1993)
- All major interfaces built in: test from 50 b/c asynchronous to 2.048 Mb/s synchronous
- Full monitor and decode of major protocols over any channel, fractional channel, or full TI or CEPT-E1
- Simulation/emulation of network protocols
- Complete English decodes with customizable displays
- Real-time stamp for captured data or statistics
- Extensive data-filtering capability and real-time statistical analysis
- · Guaranteed 100% capture performance during full line heading
- Simultaneous decodes, statistics, triggers, and filters; toggle between statistics and data displays real time, and never miss an event. Full function bit error rate tests to 2 Mb/s.
- Log results to hard disk—statistics, LAN traffic analysis, frame
- types, errors, etc.
- Remote control and PC data analysis
 Standard 2 MB buffer lots you truly capture the problem.

LAN Solutions—Award Winning Capability for Effection Token ring, and FDDI Media

- Winner of Data Comm Magazine Tester's Choice Award (January, 1994) and LAN Times Best of Times Award (November, 1993)
- Protocol decodes for every major protocol stack including TCP/IP, Novell, 3COM, DECnet, SNA, Banyan, Sun SNS, 1864 PC LAN, ISO. AppleTalk, Microsoft LAN Manager, and 6687
- Commentators and Vital Signs provide intelligent decodes statistics that relate network and protocol performance in significant network events
- Superior performance from hardware filters, a RISC process and a large, flexible capture buffer allows 100% data capture full line rates and the capability to run simultaneous, multiple measurements.
- Multitasking and a graphical, windows-based user interface allow stimulous/response testing and many other measurement to be run simultaneously, saving time when performing necessarial monitoring and baselining.
- Complete statistics of network and node performance, protectivitization, and frame length distribution can be viewed as acquired and logged to disk for baselining report generalises.
- Node discovery automatically maps MAC and network addresses together with friendly node names into a database providing a quick indication in the U/I of node status.
- providing a quick indication in the U/I of node status.

 FDDI Ring Manager uses SMT processes to passively of actively construct a map of your network, providing status information of the entire network and all of its nodes.
- Traffic generation from Pings and ARPs to creation of a wintrange of network loads

The Hewlett-Packard Internet Advisor combines complete proceed analysis for WAN or LAN with a powerful, ruggedized persecomputer, all in a lightweight, easy to carry package. Other interferent functionality can be added with the undercradle. The Interval Advisor is available in three configurations:

• The Hewlett-Packard J2300A Series Protocol Analyzer provides complete protocol analysis and BERT testing to 64 Kb/s. The J2300A monitors and decodes data traffic, performs real-time statistical analysis, protocol error analysis and link utilization, as well as complete Bit Error Rate Test measurements. Data may be captured at rates up to 256 Kb/s and analyzed in a post captured mode.

- The Hewlett-Packard J2301A/J2302A Series Protocol Analyzer provides complete protocol analysis and BERT testing to 2.048 Mb/s. The J2301A/J2302A monitors and decodes data maffic, performs real-time statistical analysis of network traffic (including LAN traffic over WANs), protocol error analysis, and simulation/emulation of network protocols, as well as complete Bit Error Rate Test measurements in a very portable, lightweight package.

The Hewlett-Packard J2522A/J2523A provide protocol analysis and network monitoring for Ethernet or Ethernet and token ing networks. All of the Network Advisor performance and

innctionality is built into the J2522A/J2523A.

The Network Advisor includes all the protocol test functionality of Internet Advisor and adds full FDDI test capability. With an outstanding full-color, high-resolution display, the Network Advisor is the premiere monitoring and univsis solution for the data center.

WAN, Ethernet and token ring interfaces are available as PC cards with no trade-offs in functionality or performance.

HP Internet Advisor Series J2300A - 64 Kb/s WAN Configuration

Specifications.

All Major Protocol Analyzer Interfaces Built In: RS-232/V.24, V.35, RS 449/RS422/RS423, and V.10/V.11. ISDN BRI/PRI and X.21

Extensible: Add expansion module to add any two full-sized PC-AT

First RS-232/V.24 Breakout Box

Protocols: X.25, SNA, HDLC, SDLC, Frame Relay, DDCMP, Asyn-*HOHOUS Bisync, IPARS, and ISDN (optional).

Data Hates: 64 Kb/s monitor, simulation, and BERT; fast capture to

Data Analysis Memory: 768 KB capture buffer, 128 KB nonvolatile RAM and £44 MB floppy. In addition, circular store data to hard disk. Extensive Data Filtering Capability

Full Function Bit Error Rate Tests

Full 486 Personal Computer: 486 25 Mhz processor with 4 MB of memory, 85 MB hard drive, built-in integral mouse, scrial and parallel and monochrome LCD display.

Weight: 5.8 Kg

Dimensions: $30 \times 8.5 \times 29 \text{ cm} (12 \times 3.4 \times 11.5 \text{ in})$

Temperature: Operating: 5° to 40° C; Nonoperating: -25° to 60° C Power Requirements: 87 to 269 VAC, 47 to 63 Hz single phase; Silwaits, max. 75 watts

터의 J2301A and J2302A T1/E1 Advisors

General Specifications

Protocols: X.25, HDLC, SDLC, IP, SNAP, SNA, Frame Relay (AN-St 71606, CCITT 1.233, ANSI TL617, Anex D, F, & G, RFC 1294, COME Q.933). TI ESF Data link Protocol Tl.403, SMDS (Tl version valy), SS#7. DDCMP, X.21, Bisync, IPARS, and asynchronous Interfaces: RS-232/V.24, V.35, RS-449/422/423, V.10/V.11, X.21,

ISON Basic Rate, ISDN Primary Rate (CEPT), ISDN U, RJ-48C, pant-bantam, DB-15/RJ-48C, BNC, BR-2, 1.6/5.6. Meets applicable feation of G.703 and G.704 for 2.048 Mb/s interface.

Extensible: Add Ethernet and token ring undercradle (J2306A/ [309A] Add expansion undercradle to add any two PC-AT cards. Data Rates for All Monitoring Simulation and BERT: Any speed hard 50 b/s to 2,048 Mb/s

Bit Error Rate Testing (BERT): Simultaneously measure bit errors, block errors, errored seconds, and G.821 results; available time, cerared seconds, degraded minutes, severely errored seconds, and atavaflable time

Full 486 Personal Computer: 486/25 processor with 16 MB of memone 170 MB hard drive, built in integral mouse, serial and parallel ferral and optional 9.6 Kb/s fax modem. For J2301A only.

Weight: 6.2 kg (14.1 lbs) for WAN only, and 7.8 kg (17.1 lbs) for MASTAN

Size: We m W \times 8.5 cm H \times 29 cm D (12 \times 3.4 in \times 11.5 in) for WAN, om (£5 in) height for WAN/LAN.

Temperature: Operating: 5° to 40° C; Nonoperating: -25° to 60° C Power Requirements: 87 to 269 VAC, 47 to 63 Hz single phase Sewalls, max 75 watts.

HP J2306A and J2309A Ethernet and Ethernet/ **Token Ring Interface Modules**

Specifications

Ethernet: AUI and 10Base2 (BNC) connectors at 10 Mb/s Token Ring: DB-9 connector at 4 or 16 Mb/s Capture Buffer: Typically 4 MB expandable to about 12 MB

HP J2522A and J2523A LAN Advisors

Specifications:

Ethernet or Ethernet and Token Ring Media Interfaces Ethernet Connectors: AUI and 10BaseT(RG-45)

Token-Ring Connector: DB-9

All Network Advisor Functionality and Performance Standard Full 486 Personal Computer: 486/25 processor with 16 MB of memory, 170 MB hard drive, built-in integral mouse, serial and parallel ports, built in Ethernet 10BaseT network interface, and standard color AMLCD

Weight: 5.7 kg (13 lbs) **Size:** 30 cm W \times 8.5 cm H \times 29 cm D (12 in \times 3.4 \times 11.5 in) **Temperature:** Operating: 5° to 40° C; Nonoperating: -25° to 60° C Power Requirements: 87 to 269 VAC, 47 to 63 Hz single phase 53 watts, max 75 watts

HP J2527A Transmission Impairment Measuring Set (TIMS):

Interface for the Internet Advisor adds complete testing of analog data circuits to the Internet Advisor. The HP J2527A increases installation and maintenance productivity for telephone companies and service providers through its ease of use and portability. Measurements are to IEEE 743 specifications:

Level/frequency up to 110 Khz

· Noise and noise-to-ground

Noise-with-tone and signal-to-noise ratio

· Three-level impulse noise

HP Network Advisor - J2219A Mainframe

Specifications

Weight: 11.4 kg (25 lbs) with media interface

Size: $36.3 \, \text{cm} \, \text{W} \times 15 \, \text{cm} \, \text{H} \times 42.7 \, \text{cm} \, \text{D} \, (14.3 \, \text{in} \, \text{W} \times 5.9 \, \text{in} \, \text{H} \times 16.8 \, \text{D})$

Power: 90 to 132 and 198 to 264 VAC, 47 to 53 and 57 to 63 Hz 100 watts typical

Display: 26.4 cm diagonal (10.4 in) color AMLCD display DOS Processor Intel 80486 33 MHz with 16 MB memory and 172 MB

hard drive. Serial, parallel and external display ports.

HP J2170A Ethernet and Token Ring Interface Module

Specifications

Media Interfaces: Ethernet and Token Ring Ethernet: AUI and 10Base2 (BNC) connectors

Token Ring: DB-9 at 4 or 16 Mb/s

Standard Capture Buffer: Typically 4 MB expandable to about

J2171A Ethernet Interface Module

Specifications

Media Interface: Ethernet

Connectors: AUI and 10Base2 (BNC) connectors

Standard Capture Buffer: Typically 4 MB expandable to about

12 MB



PROTOCOL ANALYZERS

LAN and WAN Internet Advisor, Network Advisor (cont'd) **HP 4957PC**

J2172A Token Ring Interface Module

Specifications

Media interface: Token ring Connectors: DB-9 at 4 or 16 Mb/s

Standard capture buffer: Typically 4 MB expandable to about

J2173B FDDI Single Attach Interface Module

Specifications Connector: MIC

LEDs: Indicate power level and line state

J2173C FDDI Dual Attach with TPPMD Interface Module

Specifications **Dual attach FDDI with MIC connectors TPPMD** with DB-9 LEDs indicate power level and line state

J2208B - 64 Kb/s WAN Protocol Analyzer Interface Module

Specifications

All Major Protocol Analyzer Interfaces Built In: RS-232/V.24, V.35, RS-449/RS422/RS423, and V.10/V.11. ISDN BRI and PRI and X.21

Protocols: X.25, SNA, HDLC, SDLC, Frame Relay, DDCMP, Asynchronous Bisync, IPARS, and ISDN (optional)

Data Rates: 64 Kb/s monitor, simulation, and BERT; fast capture to

Data Analysis Memory: 768 KB capture buffer, 128 KB nonvolatile

RAM and 1.44 MB floppy. In addition, circular store data to hard disk. Physical Package: 1 kg interface module for use with the Network

J2272A/J2273A - 2.048 Mb/s WAN Protocol Analyzer Interface Module

Specifications

Protocols: X.25, HDLC, SDLC, IP, SNAP, SNA, Frame Relay (AN-SI T1606, CCITT 1.233, ANSI T1.617, Anex D, F, & G, RFC 1294. CCITT Q.933), T1 ESF Data link Protocol T1.403, SMDS (T1 version only), SS#7, DDCMP, X.21, Bisync, IPARS, and asynchronous.

Interfaces: J2272A: RS-232/V.24, V.35, RS-449/422/423, V.10/V.11, X.21, RJ-48C, mini-bantam, and DB-15. ISDN Basic Rate, ISDN Primary Rate and X.21 are

optional.

J2273A: RS-232/V.24, V.35, RS-449/422/423, V.10/V.11. X.21, BNC or BR-2 or 1.6/5.6 high speed interfaces. Meets applicable portion of G.703 and G.704 for 2.048 Mb/s interface. ISDN Basic Rate, ISDN Primary Rate and X.21 are optional.

Data Rates for All Monitoring, Simulation and BERT: Any speed

from 50 b/s to 2.048 Mb/s

Bit Error Rate Testing (BERT): Simultaneously measure bit errors, block errors, errored seconds, and G.821 results; available time, errored seconds, degraded minutes, severely errored seconds, and unavailable time

Physical Package: I kg interface module for use with the Network Advisor.

PC Cards

HP J2260A Ethernet PC Card and J2261A Token Ring PC Card

Specifications

Provides: All functionality and performance of Network Advisor is

vour PC

Ethernet Interface: AUI and 10Base2 (BNC) Token Ring Interface: DB-9 at 4 or 16 Mb/s

Full Length and Full Height PC Card: 121.9 H mm \times 336.6 L name

 $(4.8 \text{ H in} \times 13.25 \text{ L in})$

Power Req: 12 watts from +5 volt power supply

Capture Buffer Size: Approx. 4 MB

Host PC Configuration: 386/20 minimum, 486 recommended. MS-DOS 5.0 or higher, 16 MB of memory, 100 MB hard drive. 3.5 in

floppy drive, and VGA display.

HP 4957PC-64 Kb/s PC Card Protocol Analyze

Specifications

Protocols: X.25, SNA, HDLC, SDLC, Frame Relay (optional) DDCMP, Asynchronous, Bisync, IPARS, and ISDN (optional) Data Rates: 64 Kb/s monitor, simulation, and BERT; fast capture to

Data Analysis Memory: 768 KB capture buffer, 128 KB nonvolatile RAM and 1.44 MB floppy. In addition, circular store data to hard disk Package: Full length, 33.4 cm (13.15 in) may be shortened by remov ing tab 27.9 cm (11 in)

Interfaces: External optional RS-232, V.35, RS-449, ISDN BR Land

VI Camina /6/1 Which

PRI, X.21

Ordering information

HP 4957PC 64 Kb/s WAN PC Card

HP J2300A WAN Advisor, V-Series/64 Kb/s	200
HP J2301A T1 Internet Advisor	VIA 544
HP 12302A E1 Internet Advisor	344 A C
HP J2305A Soft Carrying Case for Internet Advisor	
HP 12306A Ethernet Interface	5100.08
HP J2309A Ethernet and Token Ring Interface	
HP J2295A PC Card Undercradle (empty)	
HP J2522A Ethernet Advisor	
HP J2523A Ethernet and Token Ring Advisor	
HP J2527A TIMS Interface	\$7.5%
Network Advisor	
HP J2219A Mainframe	
HP J2188A Soft Carrying Case for Network Advisor	\$30
HP J2209A Soft Carrying Case for Interface Module	
HP J2170A Ethernet/Token Ring Interface Module	25 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A
HP J2171A Ethernet Interface Module	41123
HP J2172A Token Ring Interface Module	11 T 14 A
HP J2173B FDDI Single Attach Interface Module	322.4
HP J2173C FDDI Dual Attach with TPPMD Interface	3.5
Module	\$2.50
HP J2208B 64 Kb/s WAN Interface Module	
HP J2272A T1 Interface Module	55 V
HP J2273A El Interface Module	2000
PC Card Solutions	
HP J2260A Ethernet PC Card	401.00
HP J2261A Token Ring PC Card	Alles vita
HP J2308A Ethernet and Token Ring PC Cards	