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DATA COMMUNICATIONS TEST EQUIPMENT

Protocol Analyzers/Media Scanners

HP 4972A and HP J2177A, J2181A, J2187A, J2201A, J2196A

HP 4972A LAN Protocol Analyzer

The HP 4972A is a protocol analyzer for Ethernet, IEEE 802.3, and StarLAN local area networks. The analyzer captures and displays frames integral to communication between networked systems and devices. Statistical measurements provide information on fundamental parameters that instantly characterize network performance. Messages can also be transmitted in order to test system responses or simulate heavily loaded network conditions.

Features:

- Trends and statistics
- Network performance analysis
- Protocol interpreters
- Background traffic generation
- Programmable messages, tests
- Simultaneous transmit, receive



Trends and statistics of media-access layer parameters are easily monitored by the HP 4972A. Key measurements include utilization, errors and collisions, and station activity. The background traffic generator is user-configurable for stress testing of networked systems and devices.

Network performance analysis applications measure network and transport layer parameters for TCP/IP and DECnet networks. System activity by IP or DECnet address, and a distribution of frames by port or message type, are tabulated. Graphs of throughput, retransmissions, response time, and packet length analyze conversations at the transport layer.

Protocol interpreter applications present protocol header information in an easily understood manner and highlight common error conditions. Interpreters are available for TCP/IP, DECnet, Novell's NetWare, Sun Microsystem's NFS, XNS, and ISO protocols.

Physical Specifications
Size: 270 mm H × 430 mm W × 570 mm D (11 in × 17 in × 22 in)
Weight: net 21 kg (46 lb); shipping 27 kg (60 lb)

Ordering Information	Price
HP 4972A LAN protocol analyzer	$19,190
Opt 001 RGB color output	$1,500
Opt 002 RS-232/V.24 remote interface	$600
Opt 005 StarLAN interface	$500
HP 18221A TCP/IP protocol interpreter	$960
HP 18222A TCP/IP network performance analysis	$960
HP 18223A XNS protocol interpreter	$960
HP 18224A DECnet protocol interpreter	$960
HP 18225A DECnet network performance analysis	$960
HP 18226A ISO protocol interpreter	$960
HP 18227A NetWare protocol interpreter	$960
HP 18228A NFS protocol interpreter	$960

LAN Media Scanners



Hewlett-Packard offers 5 hand-held, battery-powered local area network (LAN) media scanners for quickly isolating wiring problems on LANs. For token-ring shielded or unshielded twisted-pair, 10Base-T, Ethernet thick- or thin-LAN, Arcnet, or almost any LAN, these easy-to-use products are designed to find the most common wiring faults.

J2187A Quick Scanner

The J2187A Quick Scanner uses TDR (time domain reflectometer) technology to detect and locate discontinuities in all kinds of twisted-pair and coaxial LAN cabling systems. Results are reported in plain English; for example, "Short at 53 ft."

J2181A Cable Scanner

The J2181A Cable Scanner provides the same TDR functionality as the J2187A, but adds the ability to measure electrical noise and dc resistance, and to print or store measurement results.

J2177A Pair Scanner

The more powerful J2177A Pair Scanner offers all of the capability of the J2181A along with measurement of signal loss, 10Base-T hub activation, and remote alarm generation.

J2201A NEXT Scanner

The J2201A NEXT Scanner combines all of the features of the above-listed 3 products and more. Designed to help installers and network managers certify new or existing wiring systems, the NEXT Scanner's autotest capability will automatically select and execute the appropriate tests for the chosen network type, including measurement of near-end crosstalk (NEXT) and signal attenuation measurements from 1 to 20 MHz. The optional cable management software package provides up-to-date records of the physical parameters of every part of your LAN.

J2196A Ring Scanner

The J2196A Ring Scanner was specifically designed to troubleshoot problems on token-ring LANs. At a fraction of the cost of more complex token-ring testing products, the HP Ring Scanner will quickly detect cabling problems, isolate defective MSAUs, and verify proper installation and operation of both 4 and 16 Mbps token-ring networks.

Each HP scanner is backed by a full 3-year hardware warranty (parts and labor), and is serviced and supported by Hewlett-Packard worldwide.

Physical specifications
Size: 19 cm H × 10 cm W × 2.5 cm D (7.5 in × 4.0 in × 1.0 in)
Weight: 0.5 to 0.9 kg (1 to 2 lb)

Ordering Information:	Price
HP J2187A Quick Scanner	$995
HP J2181A Cable Scanner	$1,495
HP J2177A Pair Scanner	$2,495
HP J2201A NEXT Scanner	$3,495
HP J2196A Ring Scanner	$1,295

Contact your local Hewlett-Packard sales office for information on the availability of different options, including test kits for specific network types and ac battery chargers for various destination countries.

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