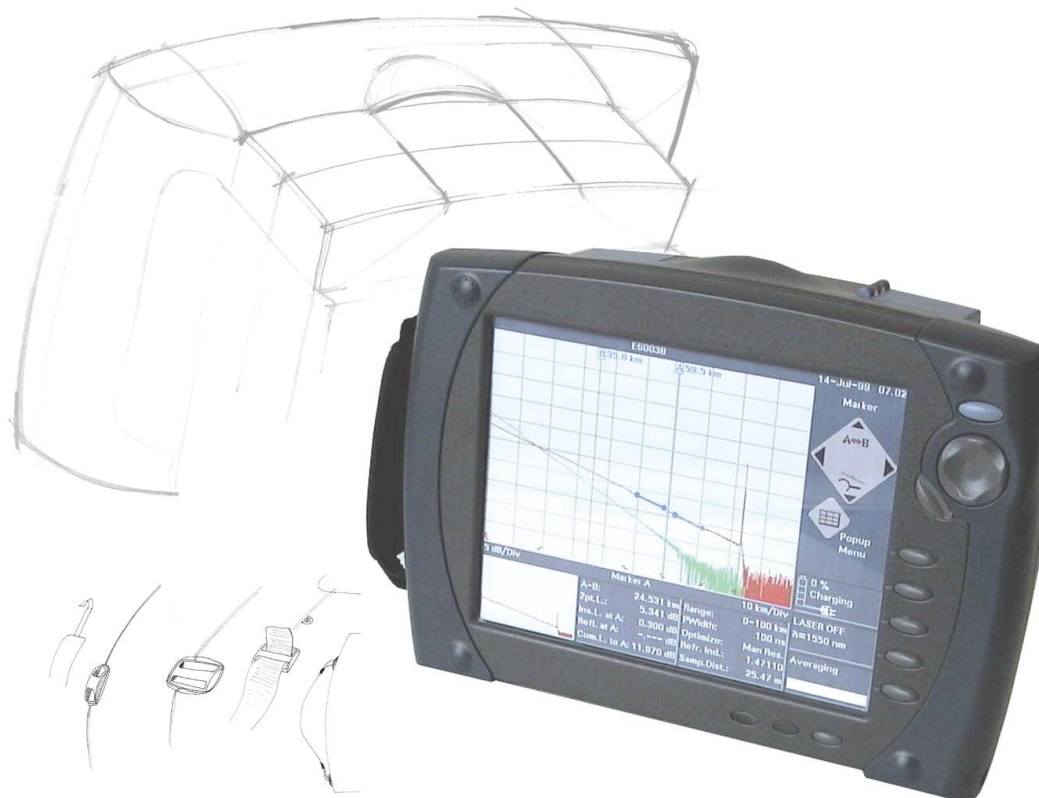




Agilent N3900A Modular Network Tester

The Perfect Fit

Technical Specifications



The Agilent Modular Network Tester is produced to the ISO 9001 international quality system standard as part of Agilent's commitment to continually increasing customer satisfaction through improved quality control.

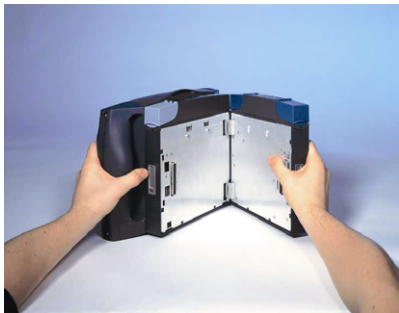


Agilent Technologies

Agilent N3900A Modular Network Tester

Description

The Agilent N3900A Modular Network Tester is a portable, lightweight, rugged test system for the installation, commissioning and maintenance of optical networks. Developed from customer feedback from installation and maintenance (I&M) technicians worldwide, its modular design delivers the measurements you need, when you need them. Snap-on measurement modules meet your test requirements for today's communication networks; the modular platform protects your investment, and lets you grow into your future measurement needs.



The Modular Network Tester can hold up to three modules to perform OTDR, WDM or dispersion measurements¹, or a 1 x 12 Optical Switch module. A video microscope camera can be connected to ensure clean, fast and safe connector inspection as the connector surface picture can be analysed on the large 10.4" display. From the carrying case to the handles and tilt-stand, from the pop-up connector to your choice of interface, attention to detail and to your feedback provide the perfect fit for the way you work.

Features and Benefits

Processing Power

The Modular Network Tester is powered by a 64Bit RISC® processor architecture with a real-time operating system, VXWorks®, for mission critical operations. Each test engine has its own RISC processing power for ultra fast data acquisition and high accuracy post processing. The Modular Network Tester boots in one minute – it's ready to work when you are.

¹ For availability please contact your Agilent sales representative

Ergonomic Design

The Modular Network Tester feels like an extension to your arm. It has a hand strap, an ergo grip, and a shoulder strap to work with you, and keep your hands free.

Attaching a fiber optic connector to a test engine has never been so safe and fast. The pop-up connector can be raised for connection and cleaning purposes, and sits securely in the down position, protected by a dust cover, while in transit.

The video microscope protects your eyes and speeds your cleaning procedures. Flash-card data storage is rugged and secure – there is no internal hard drive to crash. The companion software, Toolkit III, prepares acceptance reports the way your customers want them, and handles post-processing jobs to free you up for the next task.

The user interface fits you and your work

The Modular Network Tester mainframe has a large and brilliant 10.4" color display for indoor and outdoor application with touch screen functionality and cursor control. If you prefer soft keys you have the choice; minimum button pushing allows you to execute your task fast. A consistent user interface, throughout all applications gets your job done quickly, as well as making it fast and easy to learn. Context-sensitive help is always available at the touch of a button.

Different users can store their profile settings to optimize working conditions when the equipment is shared between technicians.



Connect to your IT world

USB & LAN ports² connect the unit to your PC, making it a part of your IT network. An RS232 interface is available for connection to older PCs. All popular printers are supported via the parallel port.

Safe, fast connector inspection

A video microscope camera, with a serial USB connection, can be connected to the Modular Network Tester to check for scratches or the cleanliness of optical connectors from 250 - 480x magnification, on the brilliant screen. Your eyes stay protected. For documentation purposes, the push of a button saves the microscope picture in a common JPEG format.

Secure and rugged data storage

Measurement data can be stored either in the rugged internal memory, on a floppy disk or on PCMCIA CompactFlash® cards with up to 512 MB.

Long Operating Time

The unit is operated with a single battery and has a built in battery charger. Under normal operating condition with one OTDR module attached, the Modular Network Tester will operate continuously for 5 hours. The intelligent battery (Lilon) displays the current charge level and the time left for completing the task. A discharged battery can be exchanged in seconds.

Training

If classroom based training is needed, you can connect a LCD projector to the VGA output of the Modular Network Tester and project the display on a large screen. If you need additional training material, please contact your Agilent representative and ask for the "Train the Trainer" Package.

² Available in next software revision. Please contact your Agilent representative.

Specifications

Storage

Internal memory: 170 MB available memory

3.5" floppy disk drive: for high density, 720/1440 kByte floppy disks. MS-DOS format compatible.³

PCMCIA

One Type III or two Type II PC Card slots

Flash Disk: up to 512 MB

Display

SVGA-LCD: 25.9 cm (10.4") color TFT display, 800 x 600 pixels (SVGA).

Human Interface

- Touch screen
- Cursor control navigation
- 5 Softkeys
- On/Off key
- Help key
- Measurement Start/Stop key
- Power On indicator
- Battery Charging indicator
- Battery charging level

Interfaces

Universal Serial Bus (USB 1.1): for connection with USB Video Microscope Camera N3988A

USB 1.1 Peripheral: Transmission for up to 12 Mbit/s^{4 5}

RS232C: 9-pin, maximum baud rate 115200 baud.

Parallel Port: 25-pin, standard parallel port (Centronics)

LAN: RJ-45 jack, (Ethernet 10/100)^{4 5}

Keyboard: PS/2 port (Mini-DIN) for English Standard, PS/2 or AT keyboard

VGA: Analog monitor output with SVGA resolution, 60Hz⁶

Headset: Standard microphone and speaker plug⁴

General

Operating temperature: 0°C to +50°C

Storage temperature: -20°C to +60°C (without battery)

Humidity: 95% Relative humidity from 0°C to +40°C.

Dimensions: 230 mm H, 330 mm W, 61 mm D. (9.0" x 13" x 2.4")

Weight: net 3.3 kg (7.5 lbs), including battery pack.

Power Supply

AC: 100–240 Vrms ± 10% 50-60 Hz.

DC: 18 V, 60W

Battery: Lilon

Battery operating time: typ. 5 hours continuous measurements with standard OTDR module at 50% back light setting.

Charging time: <3 hours non-operating.

Battery deep discharge protection: provided

³ Reduced operating temperature of 5°C to 45°C, with 35% to 80% relative humidity at 40°C

⁴ Not enabled in software Rev.1.0

⁵ For availability of a free upgrade please contact your Agilent representative.

⁶ Adapter to connect to standard VGA interface provided with N3900A Modular Network Tester

Ordering Information

Agilent Phoenix N3900A

Service & Support Options:

R1280A – Return to Agilent Warranty and Service Plan.
Available for 36 months (3 years) or 60 months (5 years).

Localization:

| Languages | Options |
|------------------------------------|---------|
| English localization | ABA |
| French localization | ABF |
| German localization | ABD |
| Simplified Chinese localization | AB2 |
| Spanish localization * | ABE |
| Portuguese localization * | AB9 |
| Traditional Chinese localization * | AB0 |
| Japanese localization * | ABJ |
| Italian localization ** | ABZ |
| Korean localization ** | AB1 |
| Russian localization ** | ACB |
| Turkish localization ** | AB8 |
| Czech localization ** | AKB |
| Polish localization ** | AKD |

* Planned availability for August 2002

** For availability please contact your Agilent representative.

Power Cord Options:

| Power Cord | Option |
|---------------------------------------|--------|
| United Kingdom | 900 |
| Australia and New Zealand | 901 |
| Continental Europe | 902 |
| United States (120 V) | 903 |
| Systems Cabinet Use – IEC 320 C13/C14 | 905 |
| Switzerland | 906 |
| Denmark | 912 |
| Republic of South Africa and India | 917 |
| Japan | 918 |
| Israel | 919 |
| China | 922 |
| Thailand | 927 |

Accessories Supplied:

- Soft case
- User's Guide
- Power Supply
- Power Supply Cord (see option code)
- Programming Guide
- VGA Adapter Cable
- Shoulder Strap
- Battery Lilon
- Support CD
- USB cable
- RS 232 cable

Optional accessories:

| | |
|--------|--|
| N3980A | Compact® Flash Card 192MB |
| N3981A | External Battery Charger with 2 Battery slots |
| N3985A | Battery Lilon |
| N3988A | USB Video Microscope Camera |
| N3993A | Hard Carrying Case for Modular Network Tester, modules and accessories |
| E6081A | Mini-Keyboard |

Software:

Agilent E6092A Toolkit III – OTDR Trace post processing and acceptance test documentation software package

Related Agilent Literature:

| Title | Type of Literature | Part Number |
|---|--------------------|-------------|
| N3900A Modular Network Tester | Brochure | 5988-5065EN |
| N391XX OTDR Test Engines for Modular Network Tester | Datasheet | 5988-5067EN |
| N3940AA 1 X 12 Optical Switch Module for Modular Network Tester | Datsheet | 5988-5068EN |
| N3988A Video Microscope for Modular Network Tester | Datasheet | 5988-5069EN |

Training Materials:

| Title | Part Number |
|--|-------------|
| Agilent Cleaning Procedures for Lightwave Test and Measurement Equipment | N3900-90AJ1 |
| Agilent OTDR 's Pocket Guide | E6000-91017 |

Web Based Training

For free training on Agilent products go to:

<http://www.agilent.com/cm/service/education.shtml>

Agilent Technologies Test and Measurement Support, Services, and Assistance

Agilent Technologies aims to maximize the value you receive, while minimizing your risk and problems. We strive to ensure that you get the test and measurement capabilities you paid for and obtain the support you need. Our extensive support resources and services can help you choose the right Agilent products for your applications and apply them successfully. Every instrument and system we sell has a global warranty. Support is available for at least five years beyond the production life of the product. Two concepts underlie Agilent's overall support policy: "Our Promise" and "Your Advantage."

Our Promise

Our Promise means your Agilent test and measurement equipment will meet its advertised performance and functionality. When you are choosing new equipment, we will help you with product information, including realistic performance specifications and practical recommendations from experienced test engineers. When you use Agilent equipment, we can verify that it works properly, help with product operation, and provide basic measurement assistance for the use of specified capabilities, at no extra cost upon request. Many self-help tools are available.

Your Advantage

Your Advantage means that Agilent offers a wide range of additional expert test and measurement services, which you can purchase according to your unique technical and business needs. Solve problems efficiently and gain a competitive edge by contracting with us for calibration, extra-cost upgrades, out-of-warranty repairs, and on-site education and training, as well as design, system integration, project management, and other professional engineering services. Experienced Agilent engineers and technicians worldwide can help you maximize your productivity, optimize the return on investment of your Agilent instruments and systems, and obtain dependable measurement accuracy for the life of those products.

**By internet, phone, or fax, get assistance with all your
test & measurement needs**

Online assistance:

www.agilent.com/comms/otdr

Phone or Fax

United States:

(tel) 1 800 452 4844

Canada:

(tel) 1 877 894 4414

(fax) (905) 206 4120

Europe:

(tel) (31 20) 547 2323

(fax) (31 20) 547 2390

Japan:

(tel) (81) 426 56 7832

(fax) (81) 426 56 7840

Brasil

(tel) (11) 4197 3600

(fax) (11) 4197 3800

Latin America:

(tel) (305) 269 7500

(fax) (305) 269 7599

Australia:

(tel) 1 800 629 485

(fax) (61 3) 9210 5947

New Zealand:

(tel) 0 800 738 378

(fax) 64 4 495 8950

Asia Pacific:

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Printed in Germany. April 10, 2002

p/n 5988-5066EN



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