

NETWORK TESTER

LANPAL100

NETWORK TESTING—TRANSPORT AND DATACOM



Compact handheld unit optimized for reliable, affordable, fast and easy TCP/IP network testing

- Tests and troubleshoots TCP/IP Ethernet networks
- Isolates network and computer problems
- Emulates a DHCP server when testing PC network interface cards (NIC)
- Tests open, short or miswired cables
- Reports status of cable and xDSL modems

■ ■ ■ A Rugged Every-Day Tool for Internet Technicians

Introducing EXFO's handheld LANPAL100, an inexpensive, easy-to-use TCP/IP network tester targeted for broadband Internet technicians and corporate IT departments. This compact unit is packaged in a rugged enclosure ready to withstand the harshest field conditions.

The LANPAL100 Network Tester facilitates the installation and troubleshooting of cable/xDSL modems and provides technicians with valuable information to help validate Internet availability and potential connectivity problems.

RUGGED AND VERSATILE

Like all EXFO portable instruments, the LANPAL100 is built for top ruggedness and versatility, perfect for variable field conditions. It features a keypad/LCD backlight, for easy operation in darker environments. What's more, it is powered by a lithium ion rechargeable battery.

LANPAL100 KEY FEATURES

- Auto test**

Validates connectivity to the Internet and provides server information such as subnet mask, default gateway, etc.

```

Current Settings
Link: yes
Lease exp:23:59:50
IP Address:
    10.1.200.98
LANPAL100 MAC Addr:
    00:90:C2:C9:1E:4D
Subnet Mask:
    255.255.0.0
Default Gateway:
    10.1.1.54
Name Server (DNS):
    10.1.1.54
DHCP Server:
    10.1.1.54
Domain Name:
    exfo.com
Host Name:
    lanpal100-C91E4D
◀ Exit          Renew ▶
    
```

- Cable modem test**

Interfaces directly with most cable modems. The LANPAL100 unit displays specific information about the modem, such as MAC ID, IP address, Max CPE, DS channel ID, DS SNR, uptime, etc.
- xDSL modem test**

The LANPAL100 interfaces with most xDSL modems, also allowing you to perform an Internet connectivity test using PPPoE. In addition, you can retrieve specific information, such as upstream/downstream rate, LOS errors, line attenuation, Tx/Rx total bytes, etc.

- Speed test**

Performs an Upload and Download speed test, similar to a speed test executed from a PC (measured in kilobits per second).

- Ping test**

Tests network connectivity by pinging remote hosts. Remote host IP addresses can be selected from a list of predefined hosts or manually entered. In addition, the ping test performs a DNS lookup.

```

Ping Test
Ping:204.11.33.3
lanpal.exfo.com
Tx:    9 Rx:    9
Min:   29 Max:   30
Avg:   29 Loss:  0%
    
```

- PC NIC test**

Validates whether a computer's network interface card (NIC) is defective or not and verifies that a network link with the computer can be established. The LANPAL100 also provides you with round-trip delay measurements in milliseconds (ms).

Test Applications

LANPAL100 KEY FEATURES

- **Cable tester** Tests for open, short and miswired cables. Also informs the user whether the Ethernet cable is a straight-through or crossover cable.


```

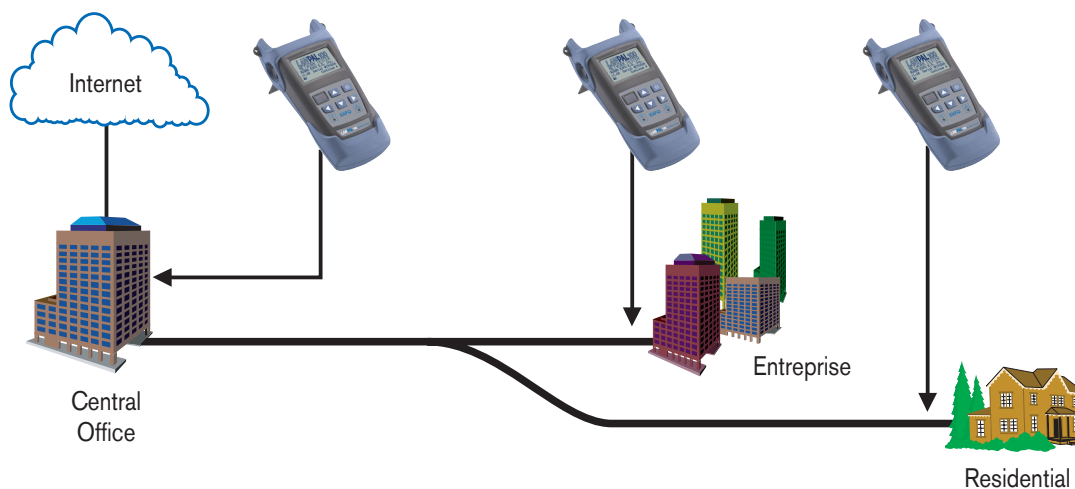
Cable Tester
Pin Map→ A:12345678
                B:36178245
↓Type↓
Ethernet Crossover
← Exit
                
```
- **Wiring reference** Displays reference diagrams of standard wiring (two- and three-line phone, EIA/TIA 568A/B) showing solid or banded color codes, pair numbering and polarity (tip/ring).


```

EIA/TIA 568B
2[RING 2-OR/WH SOLID ORANGE
  TIP 3-WH/GR SOLID BLACK
3[RING 4-BL/WH SOLID RED
  TIP 5-WH/BL SOLID GREEN
  RING 6-GR/WH Banded YELLOW
4[TIP 7-WH/BR Banded BROWN
  RING 8-BR/WH Banded WHITE
                
```
- **Tone generator** Generates tones on any pair of a two-, three- or four-pair cable.
- **ARP network scan** Address resolution protocol (ARP) packets are used to scan the local subnet. The ARP network scan displays all available and used IP addresses, as well as the MAC addresses of the used IP addresses.
- **NAT/firewall check** This simple tool checks whether the LANPAL100 is connected directly to the Internet or connected through a firewall, displaying the live IP address and the internal IP address of the network.


```

NAT/firewall check
IP 10.1.200.10:
Internet via one-way
NAT 66.201.245.151.
← Exit
                
```
- **Field software upgrades** LANPAL100 software upgrades can be performed in the field via RS-232 connection with a PC or another LANPAL100 unit.



CENTRAL OFFICE (CO)	ENTERPRISE	RESIDENTIAL
<ul style="list-style-type: none"> ■ Internet connectivity ■ Speed test ■ Ping test ■ RJ-45 patchcord test 	<ul style="list-style-type: none"> ■ Internet connectivity ■ Speed test ■ PC NIC test ■ NAT/firewall check ■ RJ-45 patchcord test ■ ARP network scan 	<ul style="list-style-type: none"> ■ Internet connectivity ■ Modem test (cable or xDSL) ■ Speed test ■ PC NIC test ■ Ping test ■ RJ-45 patchcord test

SPECIFICATIONS

Media access	10Base-T
Network port	Shielded RJ-45 connector
Cable test ports	Dual unshielded RJ-45 connectors (A and B) for cable testing and tone generation
Serial port	3.5 mm "stereo" input jack used for software upgrades and serial device connectivity
Power	Rechargeable lithium-ion battery with 6 to 16 V DC input adapter included
User interface	Menu-driven view using arrow buttons
LCD display	6-line-by-21-character display with backlight
LEDs	Two LEDs available, battery charge and network link/activity

GENERAL SPECIFICATIONS ^a

Size (H x W x D)	185 mm x 100 mm x 55 mm	(7 1/4 in x 4 in x 2 1/8 in)
Weight	0.4 kg	(0.9 lb)
Temperature		
operating	0 °C to 50 °C	(32 °F to 122 °F)
storage	-20 °C to 65 °C	(-4 °F to 149 °F)
Relative humidity	5 % to 95 % non-condensing	
Warranty (years)	1 (optional extended warranty available)	

ORDERING INFORMATION


MODULE

LANPAL100

Model ■
LANPAL100 = Handheld TCP/IP Network Tester


STANDARD ACCESSORIES

User guide, Certificate of Compliance, AC adapter/charger, lithium-ion battery, RS-232 cable, DB9 null-modem adapter, RJ-45 Ethernet crossover 1 m cable, wrist strap and soft carrying case.



Rugged Handheld Solutions

OPTICAL	COPPER ACCESS
<ul style="list-style-type: none"> - OLTSs - Power meters - Light sources - Talk sets 	<ul style="list-style-type: none"> - ADSL/ADSL2+, SHDSL, VDSL test sets - VoIP and IPTV test sets - Ethernet test sets - POTS test sets



Platform-Based Solutions

OPTICAL FIBER	DWDM TEST SYSTEMS	TRANSPORT AND DATACOM
<ul style="list-style-type: none"> - OTDRs - OLTSs - ORL meters - Variable attenuators 	<ul style="list-style-type: none"> - OSAs - PMD analyzers - Chromatic dispersion analyzer 	<ul style="list-style-type: none"> - SONET/DSn (DS0 to OC-192) testers - SDH/PDH (64 kb/s to STM-64) testers - T1/T3 testers - E1 testers - 10/100 and Gigabit Ethernet testers - Fibre Channel testers - 10 Gigabit Ethernet testers

Find out more about EXFO's extensive line of high-performance portable instruments by visiting our website at www.EXFO.com.

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EXFO is certified ISO 9001 and attests to the quality of these products. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. All of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit www.EXFO.com/recycle. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

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