# Fluke Networks DTX-NSM Specs Provided by www.AAATesters.com Networks

# **DTX-NSM** Network Service Module

# **Getting Started Guide**

The DTX-NSM Network Service Module lets you do the following:

- Verify connection to the network, including connection speed, duplex configuration, link wiring, and PoE service (wiring and PoE functions for twisted pair only)
- Ping IP addresses
- Monitor network traffic for utilization, collisions, errors, and broadcast packets
- Blink a port's activity LED
- Use Fluke Networks LinkRunner<sup>™</sup> Cable ID locators (optional) to identify link connections at a patch panel (twisted pair only)

Note

Running network tests on a fiber link requires an optional SFP module.

#### **Accessing the Product Manuals**

This guide provides basic information to help you get started using the module. For more detailed information, see the latest versions of the *DTX Series Users Manual* and the *DTX Series Technical Reference Handbook* provided on the DTX Product Manuals CD and on the Fluke Networks website.

#### **Software Requirements**

The following software supports the DTX-NSM module. Software upgrades are available on the Fluke Networks website.

- DTX software: version 1.3 or later
- LinkWare<sup>™</sup> software: version 2.5 or later

# Installing the DTX-NSM Module and Optional SFP Module

Install the network module only on the main tester. Install an optional SFP (small form pluggable) module to test fiber links. You may install or remove the SFP module while the tester is on. See Figure 1.

## **▲**Caution

Leave the module bay cover in place when a network module is not installed.

Put the dust cap on the SFP port when an optical module is not installed. Put the dust cap on the optical module when not connected to a fiber.

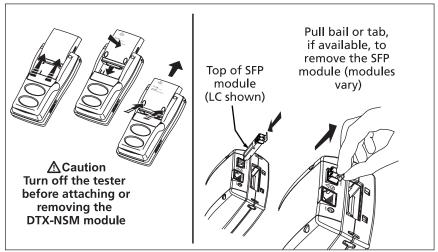


Figure 1. Installation

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## Verifying Network Connectivity

The network connectivity test tells you if a network jack is connected to the switch or hub. The test also provides details about the link's configuration and includes a ping function for verifying connectivity to stations on the network.

#### Setting Up for the Connectivity Test

- 1 Turn the rotary switch to SETUP, select Network Settings > IP Address Assignment; then select one of the following:
  - Select DHCP to have the network's server assign IP addresses.
  - Select Static to assign addresses manually.

In **Static** mode, a second tab appears on the **Network Settings** screen. On this tab, enter the **DTX Address**, **Subnet Mask**, and **Gateway** (optional) and **DNS Server** (optional) addresses. These addresses are typically available from a network installer, administrator, technician, or from network documentation.

- 2 On the **Network Settings** tab, enter a different **Number of Pings** (3 to 50) for the network connectivity test and optional ping tests.
- 3 Use one of the following methods to enter ping addresses (optional):
  - In the latest version of LinkWare software, select Utilities > DTX Utilities > Ping Target List to create and download an address list. See the LinkWare online help for details.
  - On the tester's Network Settings tab, select Target Addresses. Press
    Create; then enter the Name and IP Address of a device you want to ping.

#### **Running the Connectivity Test**

- 1 Connect to the network using a twisted pair or fiber patch cord.
- 2 Turn the rotary switch to MONITOR; then select Network Connectivity or Network Connectivity w/ PoE.
- **3** Press **(ET)**. Figure 2 describes some of the features on the network connectivity results screen.
- 4 To save the results, press (ave ; then do one of the following:
  - To save the results in a new record, create an ID or select an unused ID from the Auto Sequence ID list or the List of downloaded IDs; then press evel.

IDs that already contain network connectivity results are preceded with a "\$".

• To save the results with existing cable test results for the same link, enter the ID of the existing results or select the ID from the Auto Sequence ID list or the List of downloaded IDs; then press e.

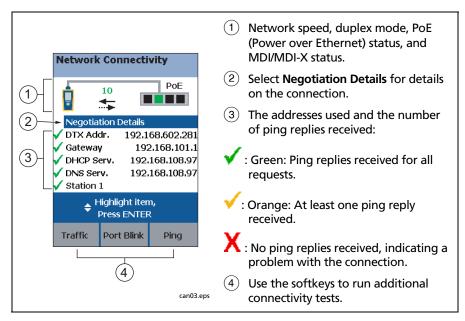


Figure 2. Network Connectivity w/ PoE Results (twisted pair)

## Identifying Links (twisted pair only)

The **ID Locator** function helps you quickly identify link connections at a patch panel. This function requires one or more optional Fluke Networks LinkRunner<sup>™</sup> Cable ID locators.

To identify a link:

- 1 Connect one or more cable ID locators to one end of the link(s).
- 2 Turn the rotary switch to MONITOR, select ID Locator; then press (TET).
- 3 Connect the tester to different jacks, pressing **s** to rescan each time, until **Found Cable ID** and the identifier's number appears.

## Registration

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Registering your product with Fluke Networks gives you access to valuable information on product updates, troubleshooting tips, and other support services.

To register, fill out the online registration form on the Fluke Networks website at www.flukenetworks.com/registration.

## **Contacting Fluke Networks**

www.flukenetworks.com

support@flukenetworks.com

+1-425-446-4519 or 1-800-283-5853

- Australia: 61 (2) 8850-3333 or 61 (3) 9329 0244
- Beijing: 86 (10) 6512-3435
- Brazil: 11 3759 7600
- Canada: 1-800-363-5853
- Europe: +31-(0) 40 2675 600
- Hong Kong: 852 2721-3228
- Japan: 03-6714-3117
- Korea: 82 2 539-6311
- Singapore: 65-6799-5566
- Taiwan: (886) 2-227-83199

Visit our website for a complete list of phone numbers.

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> Fluke Networks PO Box 777 Everett, WA 98206-0777 USA

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