

SierraNet M1288 Optical TAP *Installation Guide*

1 Introduction

The SierraNet M1288 Optical TAP enables the SierraNet M1288 analyzer to unobtrusively capture and analyze 400G and 800G SR8 optical links. It provides engineers 100% recording capabilities for all data-link through complete data payload layers, with accurate and precise decoding enabled in the Net Protocol Suite™ software application.

The Optical TAP connects to the link under test via the Network 1 A/B MPO OM4 connectors; transmissions from these ports are passively reflected out the Mon A/B MPO OM4 ports, which are connected to the SierraNet M1288 analyzer for recording. It can be used for testing NICs, Servers, or Switches that use compatible SR8 interfaces.



2 Components

The Teledyne LeCroy SierraNet M1288 Optical TAP package includes the following items:

One 400G/800G SR8 MPO TAP cassette:

- Fiber type: Multimode OM4

- Connector: 16f MPO (male)
- Split ratio: 50/50

Installation Guide (this manual)

3 Unpacking

Inspect the received shipping container for any damage. Unpack the container and account for each of the system components listed on the

accompanying packing list. Visually inspect each component for absence of damage. In the event of damage, notify the shipper and Teledyne LeCroy. Retain all shipping materials for shipper's inspection.

4 Front and Rear Descriptions

The **Front** side of the Optical TAP has the following ports:

Network 1 A and B – Devices under test connect to these ports via 16f MPO (female), Polarity B cables. These ports are cross-connected internally so that the connected devices will link with each other.

Network 2 C and D – The TAP supports a second link under test using these ports.

The **Rear** side of the Optical TAP has the following ports:

Mon A and B – Transmissions from Network 1 A/B will be reflected out these ports, respectively. Connect these ports via 16f MPO (female), Polarity B cables to the SierraNet M1288 P3 and P4.

Mon C and D – The TAP supports connecting a second M1288 analyzer using these ports.

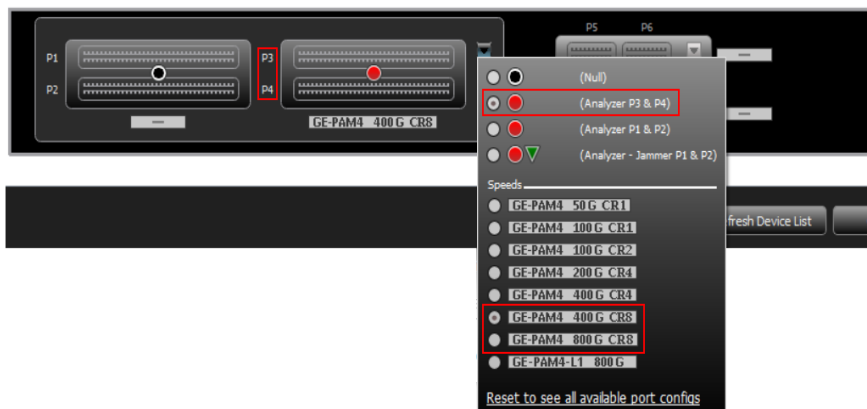
Warning: Do not open the enclosure. No operator serviceable parts are inside. Refer servicing to Teledyne LeCroy customer care.



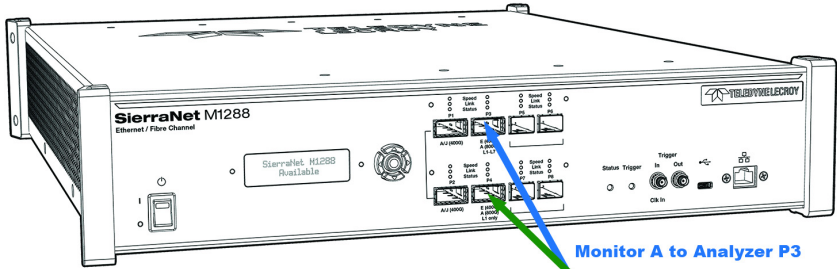
5 Setup Procedure

Install Net Protocol Suite software.

1. Connect the TAP into your setup according to the diagram below.
Note: MPO fiber cables and optical transceivers are not provided.
 - a. Refer to the Net Protocol Suite readme file for a list of SR8 optical transceivers that are supported in the SierraNet M1288.
 - b. Device A and Device B will link through the TAP's Network 1 A/B ports.
 - c. Device A transmissions will be reflected out the Mon A port. Device B transmissions will be reflected out the Mon B port.
 - d. Connect Mon A port to SierraNet M1288 P3. Connect Mon B port to SierraNet M1288 P4. (See diagram on next page)
2. In Net Protocol Suite, create new project for the SierraNet M1288
 - a. Choose the "Analyzer P3 & P4" option.
 - b. Choose the 400G CR8 or 800G CR8 speed option according to your Device's configuration.
 - c. Start recording.



6 Setup Diagram



SierraNet M1288

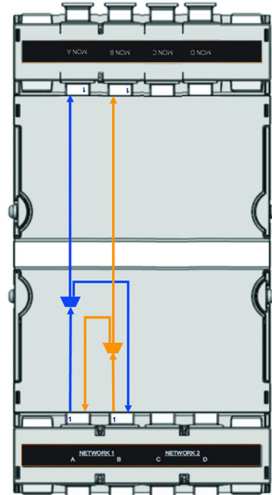
16f MPO (female),
Polarity B (Qty 2)*



Cables not included.
Optical transceivers not included.

Link Under Test

16f MPO (female),
Polarity B (Qty 2)*



7 Environmental Conditions

- Operation Temperature (°C): 0 ~ 40

Teledyne LeCroy Customer Support

Web: teledynelecroy.com/protocolanalyzer/ethernet

E-mail: psgsupport@teledyne.com

Support: teledynelecroy.com/support/contact

Trademarks and Servicemarks

Teledyne LeCroy, Teledyne LeCroy SierraNet M1288 Optical TAP, SierraNet M1288, and Net Protocol Suite are trademarks of Teledyne LeCroy. All other trademarks are property of their respective companies.

Disclaimer

Users are fully responsible for their application of any products. The Software License and Limited Warranty for the accompanying product are set forth in information that shipped with the product and are incorporated herein by this reference. If you are unable to locate the Software License or Limited Warranty, contact Teledyne LeCroy for a copy.

Changes

Product specifications are subject to change without notice. Teledyne LeCroy reserves the right to revise the information in this document without notice or penalty.

Copyright

© 2024 Teledyne LeCroy, Inc. All rights reserved.

Part Number: 937022-00 Rev A.

This document may be printed and reproduced without additional permission, but all copies should contain this copyright notice.