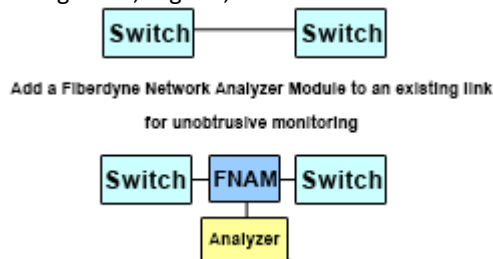


**Purpose:**

To provide a simple parallel tap “interface” between your fiber-optic network and your Network Analyzer or Monitoring equipment.

**Conceptual Usage:**

After connecting the Network Analyzer Interface Module to the network, one can easily attach or remove the analyzer/monitor equipment without disturbing the network. This product is ideal for use with analyzers such as "sniffers." Enjoy the cost benefits of sharing one network analyzer on multiple network links. This product is a passive optical device and does not require electrical power. It can be used on a variety of optical networks including: ATM, Gigabit, and Fast Ethernet.



Interface modules are added to existing network links (“FNAM” in diagram, above). These modules are described by their *channel* count. One channel monitors one, full-duplex link. Depending on the module type, multiple channels may be built into a single module. Each channel uses two fiber-optic splitters and six optical connectors. These six connectors include two (2) network inputs, two (2) network outputs, and two (2) *tap* outputs. The customer must specify the desired tap *split ratio*, which can be almost any required percentage of the network power. Commonly specified values are 90/10, 80/20 and 50/50.

**Features:**

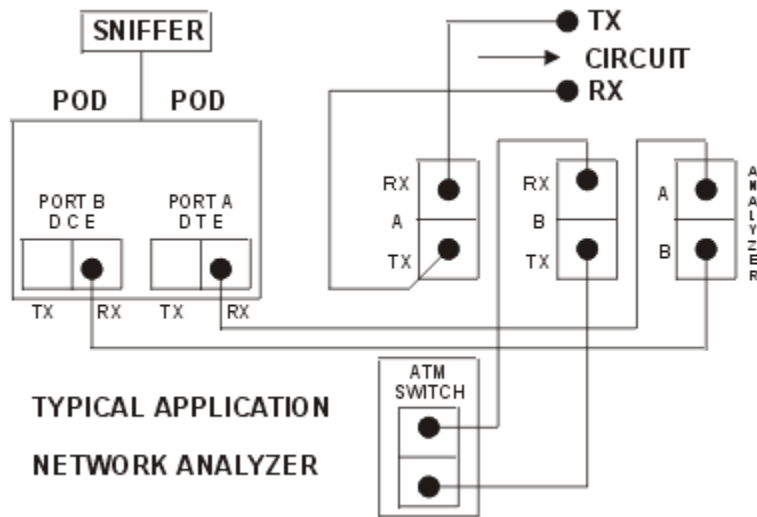
- Attach/Remove Network Monitoring Equipment without Network Disruption
- Monitors Transmit and Receive Fibers
- Available for Single-mode or Multimode Networks
- Passive Optical Device – No Electrical Power Required
- Multiple Packaging Configurations Available
- Available with Most Popular Fiber-Optic Connectors
- Specify Virtually Any Tap (Split-Ratio) Percentage (specify percent of power sampled from the network link – 1% to 50%)

**Standard Configurations:**

- Split Ratios (typical): 50/50, 60/40, 70/30, 80/20, or 90/10
- Standard telecom wavelengths (nm): 850, 1310, or 1550
- Full-duplex monitoring

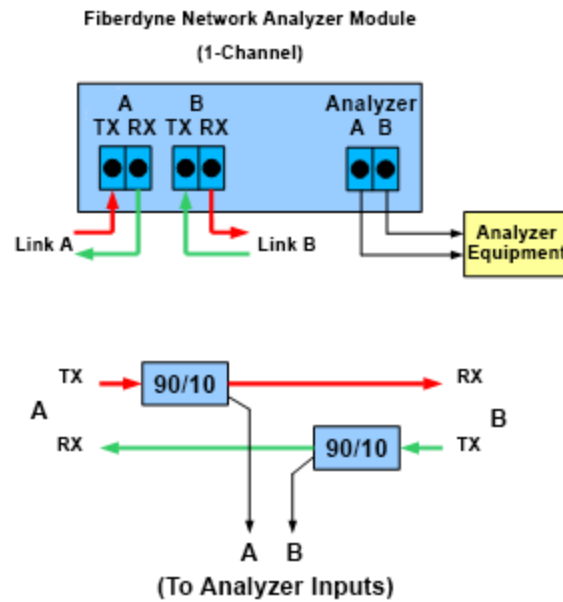
**Options:**

- Single-mode (9/125) or Multimode (62.5/125 or 50/125) versions
- Gigabit Multimode – for VCSEL (e.g. 1000Base-SX) sources
- Alternate Split Ratios available
- Simplex monitoring (i.e. ½ channel)
- Connector Types: SC, SC/APC, ST, FC, FC/APC, LC, LC/APC, MT-RJ
- Packaging: LGX, 19/23-inch Rack-mount and smaller special modules



**Optical Schematic:**

- Example configuration: 1-channel, using 90/10 split-ratio
- Multi-channel modules repeat this configuration



**General Specifications:**

Item Description	Unit	Value
Wavelength Ranges		
- 850/1300 (Dual-window) MM	nm	± 15
- 850-nm <i>Laser</i> MM		± 15
- 1310 or 1550 (Single-window) SM		± 10
- 1310/1550 (Dual-window) SM		± 40
Return Loss *	dB	>50
Temperature – Operating **	°C	-40 to +80
Temperature – Storage **	°C	-40 to +85

\* Note: module Return Loss will be connector dependent; therefore, this is the specification for the splitters, which are used in the module, as applicable.

Insertion Losses, maximum (dB):

Split Ratio (typical)	Multimode (850/1300)	Single-mode (1310/1550)
50/50	4.4/4.4	4.0/4.0
60/40	3.6/5.6	2.9/5.0
70/30	3.0/6.9	2.3/6.2
80/20	2.4/8.8	1.7/8.0
90/10	1.9/11.9	1.2/11.4

Packaging: (module dimensions)

Module ***	Box	Faceplate
LGX/Lucent-compatible	3.97”H x 1.12”W x 4.98”D	5.06”H x 1.12”W
19/23-inch Rack-mount	1.72”H x 17.0”W x 5.94”D	1.72”H x 19.0”W
Small Special Modules	Various	N/A

\*\*\* Single-wide modules are shown; double and triple-wide modules are available.