

HIGH-DENSITY FIBER-OPTIC TAP

Passive traffic access designed specifically for Enterprise networks

BENEFITS

- Provides passive access to fiber-optic network traffic that will not cause a point of failure
- Enables dynamic connection of analysis, monitoring, and security devices into networks
- Minimizes space with 16 single (1x1) TAPs in a 1U rack mount configuration
- Does not add latency to network traffic
- Shows all traffic, bit-for-bit, unlike Mirror or SPAN ports

While used by service organizations and IT professionals for years, fiber optic TAPs were not generally deployed with networks as their density was lower than the switching infrastructure they supported. Finisar's High Density (HD) TAP changes this by providing 16 TAPs in a 1U rack mountable chassis. HD TAP densities allow networking professionals to include TAPs within their networks at deployment time, creating a permanent, fail-safe, and passive traffic access point to network traffic. With the TAPs installed, the network has connection points for protocol analyzers, network monitoring devices, and intrusion detection/prevention systems, without the need to stop the network.

TAPs operate by passing network traffic while diverting some of the signal to a TAP port to provide a copy of the traffic. Fiber-optic TAPs are completely passive, i.e., not powered. Network traffic continues to pass through the TAP regardless of the state of the power to the rest of the network, creating a failsafe traffic access point that will not introduce a point of failure. Also, fiber-optic TAPs are transparent to data stream and therefore will not interfere with network performance.



Finisar's HD TAPs provide full line-rate access to traffic for Enterprise fiber-optic networks in a high-density form-factor. HD TAPs are available with an optional rack mount chassis that allows direct insertion into an Enterprise cabinet. The TAPs are available in groups of four, with densities as high as 16 single TAPs in a 1U rack space. They are fully compatible with all fiber-optic intrusion detection/prevention systems (IDS/IPS), protocol analyzers, and network monitoring devices.

When compared with SPAN or mirror ports, the HD TAP eliminates many of the problems commonly associated with SPAN or mirror ports for monitoring and analysis, such as switch performance degradation or the inability to see physical-layer errors. Unlike SPAN or mirror ports that can modify network traffic, TAPs provide bit-for-bit visibility, allowing comprehensive analysis down to the physical layer. And, when deployed instead of SPAN or Mirror Ports, TAPs preserve network switch equipment investment by allowing all switch ports to be utilized for business use rather than for SPAN or Mirror port functionality.

THE FINISAR ENTERPRISE HD TAP KEY FEATURES

- Passive network access without interfering with network traffic
- 4 TAPs per unit, which when used with its optional 19" rack mountable chassis that supports up to 4 units, provides a total of 16 single TAPs in 1U of rack space
- Front panel LC (only) connectors provide easy access for installation and maintenance
- Available in either 70/30 (standard) or 50/50 light splits
- Available in either 62.5 μm or 50 μm multi-mode fibers

TECHNICAL SPECIFICATIONS: QUAD TAP UNIT

- 4 independent single TAPs
- 8 Network Ports: LC connectors
- 4 Tap Ports: LC connectors
- Operational Temperature: +10° to +40° C (+50° to +140°F)
- Unit measurements: 8.5"W x 0.6875"H x 6.5"D (including connector protrusion)
- 62.5um TAP maximum data rate is 2.125 Gb/s
- 50um TAPs maximum data rate is 4.250 Gb/s.

TECHNICAL SPECIFICATIONS: HD TAP CHASSIS

- Holds 4 Quad TAP units
- Chassis measurement: 19"W x 1.75"H x 6.25"D

LINK POWER BUDGET ATTENUATION (TYPICAL)

Order Numbers	Split Ratio	Connectors (N1,N2,T)	Network Port Attenuation	TAP Port Attenuation
HDxx-TAP5050-yyy	50/50	LC, LC, LC	4.5 dB	4.5 dB
HDxx-TAP7030-yyy	70/30	LC, LC, LC	2.8 dB	7.0 dB
HDxx-TAP8020-yyy	80/20	LC, LC, LC	1.8 dB	8.1 dB

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