



High-Density Fiber-Optic TAP

Passive traffic access designed specifically for Enterprise networks



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. The Viavi Solutions 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, that is 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.

The Viavi 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.

Key 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
- Shows all traffic, bit-for-bit, unlike Mirror or SPAN ports
- Preserves network switch equipment investment by allowing all switch ports to be utilized for business use rather than for SPAN or Mirror port functionality
- Up to 10 G passive network access without interfering with network traffic

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)
Core dimension/wavelength	62.5 μm/850 nm, 50 μm/850 nm, 9 μm/1310 nm, 9 μm/1550 nm
HD TAP Chassis	
Holds 4 Quad TAP units	
Chassis measurement	19"W x 1.75"H x 6.25"D

Ordering Information

Link Power Budget Attenuation (Typical)				
Split Ratio	Connectors (N1,N2,T)	Network Port Attenuation MM/SM	TAP Port Attenuation MM/SM	Product Numbers
50/50	LC, LC, LC	4.5 dB / 3.6 dB	4.5 dB / 3.6 dB	HDxx-TAP5050-yyy
70/30	LC, LC, LC	2.8 dB / 2.0 dB	7.0 dB / 5.9 dB	HDxx-TAP7030-yyy



Contact Us **+1 844 GO VIAVI**
(+1 844 468 4284)

To reach the Viavi office nearest you,
visit viavisolutions.com/contacts.

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