![Network Critical logo] **Network Critical**
The Window to your Network™

Passive Fiber Optical MPO & LC TAPS
For 1G/10G/40G/100G and 400G

DATA SHEET

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Installed into key links in your production network our passive optical fiber MPO and LC TAPs pass all full-duplex traffic, including errors, to your monitoring network for unbeatable visibility. The one-way design ensures no data can flow back from the monitoring network thus protecting the production network and granting complete invisibility to the tools.
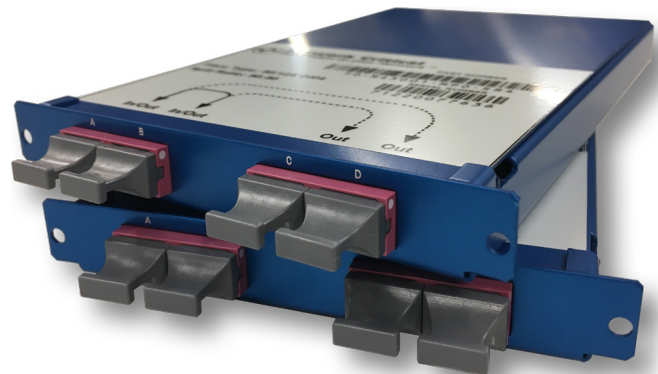
As the primary access solution for all packet analysis applications including intrusion detection, performance monitoring, lawful interception, forensics, and more, Network Critical's Passive Optical TAPs ensure a full and complete copy of the traffic for network monitoring and security devices with no impact to the monitored systems.

Network Critical's Passive Optical Fiber MPO and LC TAPs provide secure and simple access to the live traffic in your high speed production networks, without introducing latency or a point of failure.

These all-optical 1G/10G/40G/100G (LC) and 40G/100G (MPO) TAPs feature US Conec MTP Elite connectors, premium grade fiber and precision Fused Bioconical Taper (FBT) & Thin Film Filter (TFF) splicing to acheive the lowest insertion loss in the market, and require no power to operate.
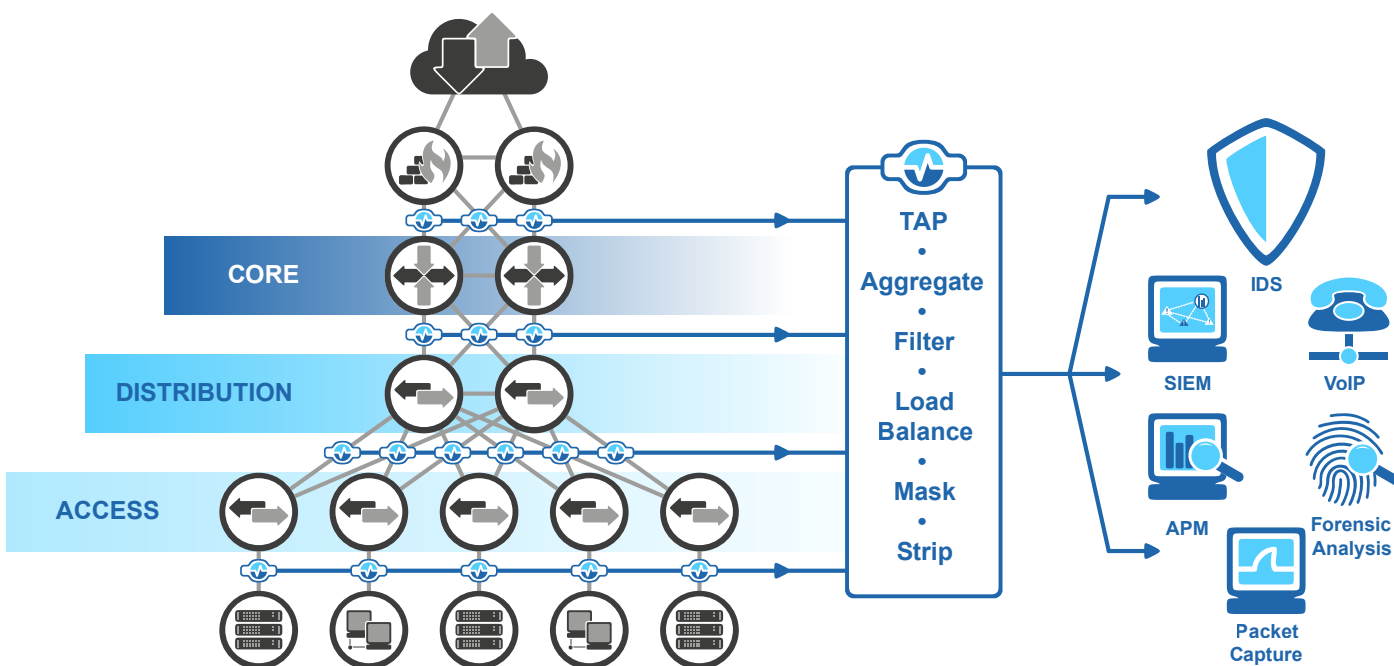
Simple to intall and with no configuration or ongoing maintenance costs, Network Critical's Passive Optical TAPs are the smart choice for access to the traffic in your network.

KEY FEATURES	BENEFITS
Completely passive with no IP/MAC address required	Transparent to your network and 100% failsafe, ensuring complete security for monitoring tools
Passes all full-duplex traffic, including errors	Ensures you receive 100% of your traffic which results in comprehensive network troubleshooting
MPO and LC optical TAPs are optimized to ensure zero latency	No impact on performance of your network
Full range of split ratios (50:50, 60:40 and 70:30) & fiber types (SM/MM).	Offers extensive and flexible access solutions
US Conec MTP® Elite connectors, premium grade fiber and precision fusion splicing for lowest insertion loss for MPO TAPs	Compliant with all connector brands and lowest insertion loss
Primary network access solution supporting all packet capture, performance monitoring, lawful interception and forensic analysis applications	Compliant with all major network monitoring and security vendors
Unmanaged device means no initial configuration time or on-going maintenance costs	Ensures a fast and easy installation process with minimal downtime

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KEY FEATURES	BENEFITS
Up to 16 fiber TAPs in a 1U frame	Efficient rack usage; reducing data center real estate
Always on; requires no power, introduces no point of failure	Fails to safe ensures no impact on performance of your network

Maximum Insertion Loss (MPO TAPs)

Split Ratio	Multimode	
	Network	Monitor
50:50	4.5 dB	4.5 dB
60:40	3.1 dB	5.1 dB
70:30	2.4 dB	6.3 dB
80:20	1.8 dB	8.1 dB
90:10	1.3 dB	11.5 dB

Maximum Insertion Loss (LC TAPs)

Split Ratio	Multimode		Singlemode	
	Network	Monitor	Network	Monitor
50:50	4.5 dB	4.5 dB	3.7 dB	3.7 dB
60:40	3.1 dB	5.1 dB	2.8 dB	4.8 dB
70:30	2.4 dB	6.3 dB	2.0 dB	6.1 dB
80:20	1.8 dB	8.1 dB	1.3 dB	8.0 dB
90:10	1.3 dB	11.5 dB	0.8 dB	12 dB

PRODUCT SPECIFICATIONS

Mechanical	TAP Dimensions (mm): 13 (H) x 168 (D) x 97 (W) (LC & MPO) Weight (kg): 0.085 kg (LC & MPO) Material/Colour: PC/ABS Anthracite Grey RAL 7016 (LC & MPO)
Fiber Type	OM3 & OM4: 50/125μm, Wavelength: 850nm & 1300nm (LC) OS1: 9/125μm, Wavelength: 1310nm & 1550nm (LC) OM4: 50/125μm, Wavelength: 850nm (MPO)
Connectors	LC Network Ports: (2) Duplex LC connectors (LC) LC Monitoring Port: (1) Duplex LC connector (LC) US Conec MTP® Elite (MPO)
Certification	IEC 60793
Environmental data	Free of Halogen: Yes 2011/65/EC RoHS: Fully Compliant

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MPO TAP PART NUMBERS (More Module types are available on request)	
40Gb/100Gb Fibre Breakout TAPs - 40GBASE-SR4 or 100GBASE-SR4 Multimode MPO (OM4 50/125)	
FO-M47001-MPO-SR4	Passive Optical TAP, OM4 70:30, MPO12, 40/100GBASE-SR4
FO-M46001-MPO-SR4	Passive Optical TAP, OM4, 60:40, MPO12, 40/100GBASE-SR4
FO-M45001-MPO-SR4	Passive Optical TAP, OM4, 50:50, MPO12, 40/100GBASE-SR4
100Gb Fibre Breakout TAPs - 100GBASE-SR10 Multimode MPO (OM4 50/125)	
FO-M47001-MPO-SR10	Passive Optical TAP, OM4, 70:30, MPO24, 100GBASE-SR10
FO-M46001-MPO-SR10	Passive Optical TAP, OM4, 60:40, MPO24, 100GBASE-SR10
FO-M45001-MPO-SR10	Passive Optical TAP, OM4, 50:50, MPO24, 100GBASE-SR10

LC TAP PART NUMBERS (More Module types are available on request)	
1Gb/10Gb Fibre Breakout TAPs - 100GBASE-SX or 10GBASE-SR4 Multimode LC (OM3 50/125)	
FO-M35001-LC	Passive Optical TAP, OM3 50:50, LC, 1G/10G-SX/SR
FO-M37002-LC	Passive Optical TAP (Dual), OM3, 70:30, LC, 1G/10G-SX/SR
1Gb/10Gb Fiber Breakout TAPs - 1000BASE-LX or 10GBASE-LR/ER Singlemade LC (OS1 9/125)	
FO-S15001-LC	Passive Optical TAP, OS1, 50:50, LC, 1G/10G-LX/LR/ER
FO-S17002-LC	Passive Optical TAP (Dual) OS1, 70:30, LC, 1G/10G-LX/LR/ER
10Gb Fiber Breakout TAPs - 10GBASE-SR Multimode LC (OM4 50/125)	
FO-M45001-LC	Passive Optical TAP, OM4, 50:50, LC , 1G/10G-SX/SR
FO-M47002-LC	Passive Optical TAP (Dual), OM4, 70:30, LC, 1G/10G-SX/SR
40Gb/100Gb Fiber Breakout TAPs - 40GBASE-LR4/ER4 or 100GBASE-LR4/ER4 Singlemode LC (OS1 9/125)	
FO-S15001-LC-LR4	Passive Optical TAP, OS1, 50:50, LC, 40/100GBASE-LR4
FO-S17002-LC-LR4	Passive Optical TAP (Dual), OS1, 50:50, LC, 40/100GBASE-LR4

Different split ratios and special requests can be accommodated - please ask your sales representative

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