

Ixia Net Optics Flex Tap™



The Ixia Net Optics Flex Tap™ family delivers total traffic visibility for network monitoring and security tools. Deploying these network taps on any network link with a universal rack mount will reduce rack space use and improve optical signal reliability. The high-density design of the Flex Tap family lets you install up to 24 taps in one rack-mount unit.

Flexible and scalable, each device in the Flex Tap family is removable, offers speeds up to 100G, and is 100 percent passive, enabling the deployment of up to 24 taps in 1U, depending on the model. Modules come in multimode and single mode fiber varieties and split ratios ranging from 50/50 up to 90/10. The Flex Tap is available with either LC or MTP (MPO) connectors.

The Flex Tap requires no power to function and maintains permanent passive access monitor ports without introducing a point of failure in the network. The monitoring device connected to the Flex Tap is provided all full-duplex traffic as if it were inline, including Layer 1 and Layer 2 errors. Without the requirement for an IP address, Flex Taps are isolated from external access, eliminating their exposure to remote attacks.

The optical design of the Flex Tap is optimized and tested for high-performance fiber networks ranging from 1G to 100G. Flex Taps are deployed at any inline connection on the network, providing complete network visibility and access. Because Flex Taps are installed inline, there is no additional overhead added to the network devices to copy traffic for the monitoring tools. The Flex Tap is compatible with all major manufacturers' monitoring devices, including protocol analyzers, probes, and intrusion detection systems, and is protocol agnostic.



Key Features

- Leading optical technology, best signal reliability
- Industry-leading modular density; up to 24 taps or 12 MTP taps per 1U
- Each model is tested and optimized for 1G, 10G, 40G and 100G
- Available in single mode and multimode with MTP or LC connections
- Compatible with all protocols and monitoring devices
- Multimode dual LC / MTP uses multimode
- OM4 50µm fiber optics
- 40G MTP model can be used as one 40G tap or 4 x 10G taps
- 100G MTP model can be used as one 100G tap or 12 x 10G taps
- Passes all full-duplex traffic (including errors) from all layers
- Non-disruptive and transparent
- Requires no power and does not have an IP address, providing safety from remote attacks
- Black and tan LC connectors denote multimode fiber for network monitoring
- Color coded in blue and green for easy port monitoring on LC connectors in single mode fiber
- Single mode supports both 1310 and 1550nm light
- Y-Cable for monitor port included with the MTP model



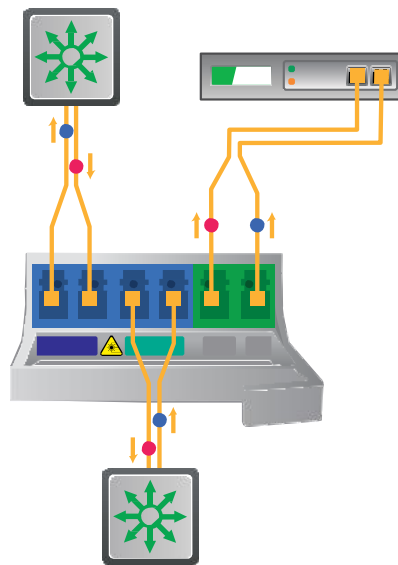
LC Model



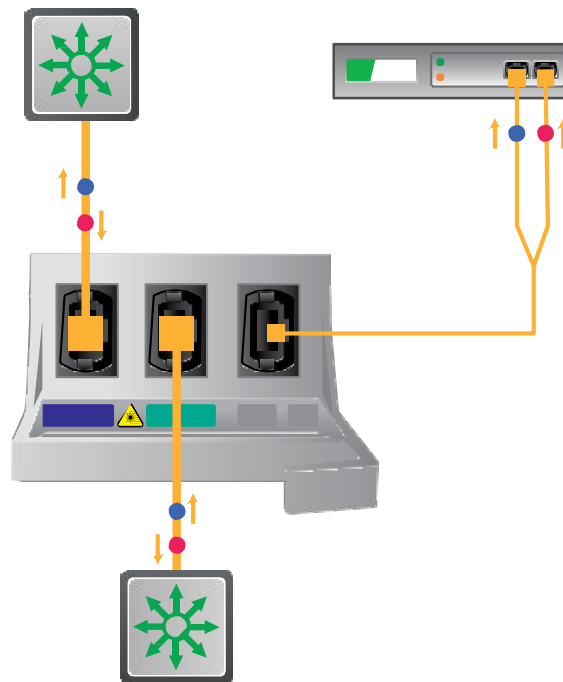
MTP Model

The Performance Advantage

The Flex Tap uses the most enhanced fiber optic technology today to yield the highest-quality fiber Tap for higher utilization rates and more-expansive deployments with multimode fiber networks. The Flex Tap multimode 10G, 40G, and 100G models help to improve signal-to-noise ratios and insertion loss. The Flex Tap's fiber optic technology reclaims high signal-to-noise ratios (more signal to less noise), while supporting improved insertion loss on the 10G, 40G, and 100G multimode taps.



LC Tap Deployment



MTP Tap Deployment

Specifications	
Operating	<ul style="list-style-type: none"> • Operating Temperature: 0° to 40°C • Storage Temperature: -10° to 70°C • Relative Humidity: 10% min, 95% max, non-condensing
Mechanical	<ul style="list-style-type: none"> • Tap Dimensions: 1.6" High x 7.8" Deep x 0.7" Wide • MTP Dimensions: 1.6" High x 10.1" Deep x 1.3" Wide • Rack Dimensions: 1.7" High x 8.4" Deep x 19" Wide
Fiber Type	<ul style="list-style-type: none"> • Multimode: <ul style="list-style-type: none"> ○ LC Model: Core Size: 62.5/125µm; Wavelength: 850nm ○ LC and MTP Model: Core Size: 50/125µm OM4; Wavelength: 850nm • Single Mode: <ul style="list-style-type: none"> ○ Tap Core Size: 8.5/125µm; Wavelength: 1310nm/1550nm
Connectors	<ul style="list-style-type: none"> • LC Network Ports: (2) Duplex LC connectors • LC Monitoring Port: (1) Duplex LC connector • MTP Network Ports: (2) MTP connectors, 12 Fiber or 24 Fiber • MTP Monitoring Port: (1) MTP connector, 12 Fiber or 24 Fiber
Certifications	<ul style="list-style-type: none"> • Fully RoHS-compliant • Regulatory Certifications: UL, CE • MTP Regulatory Certifications: FCC, ICES , VCCI, EN55022, CISPR22, AS/NZS CISPR 22, EN55024, CISPR24

Insertion Loss (Network / Monitor)					
	50/50	60/40	70/30	80/20	90/10
1/10/40/100G SM	3.7db / 3.7db	2.8 dB/ 4.8 dB	2.0 dB/ 6.1 dB	1.3 dB/ 8.0 dB	0.8 dB/ 12.0 dB
1G MM	4.5 dB/ 4.5 dB	3.1 dB / 5.1 dB	2.4 dB / 6.3 dB	1.8 dB/ 8.1 dB	1.3 dB / 11.5 dB
10G MM	3.9 dB / 3.9 dB	2.9 DB / 4.9 DB	2.2 dB / 6.1 dB	1.6 DB / 7.9 dB	-
40G MM	4.4 dB / 4.4 dB	-	2.6 dB / 6.6 dB	-	-
100G MM	4.4 dB / 4.4 dB	-	2.6 dB / 6.6 dB	-	-

Product Ordering Information

Single Modeⁱ

TP-1-LX-85-zz

Flex Tap, 1G, LX, 8.5µm

TP-10-LR-85-zz

Flex Tap, 10G, LR, 8.5µm

TP-40-LR-85-zz

Flex Tap, 40G, LR, 8.5µm

TP-100-LR-85-zz

Flex Tap, 100G, LR, 8.5µm

Multimodeⁱⁱ

TP-1-SX-50-zz

Flex Tap, 1G, SX, 50µm

TP-1-SX-62-zz

Flex Tap, 1G, SX, 62.5µm

TPX-10-SR-50-zz

Flex Tap, 10G, SR, 50µm

TPX-40-SR-50-50-MTP

Flex Tap, 40G, SR, 50µm, 50:50, MTP Connectors

ⁱ The variable "zz" denotes the split ratio specification "50"=50:50, "60"=60:40, "70"=70:30, "80"=80:20, "90"=90:10

ⁱⁱ The variable "zz" denotes the split ratio specification "50"=50:50, "60"=60:40, "70"=70:30, "80"=80:20

TPX-40-SR-50-70-MTP

Flex Tap, 40G, SR, 50µm, 70:30, MTP Connectors

TPX-100-SR-50-50-MTP

Flex Tap, 100G, SR, 50µm, 50:50, MTP Connectors

TPX-100-SR-50-70-MTP

Flex Tap, 100G, SR, 50µm, 70:30, MTP Connectors

Accessories**705-0013-001**

Cable Kit, Cable Assembly, LC/LC, 1G/10G, Multimode, 62.5µm

705-0014-001

Cable Kit, Cable Assembly, LC/LC, 1G/10G/40G/100G, Single Mode, 8.5µm

705-0027-001

Cable Kit, Cable Assembly, MTP/ MTP, Multimode, OM4, 50µm

CKT-LC-LC-50-OM4

Cable Kit, 1G/10G, 2LC and 1Y-Cable, 50µm, OM4

CKT-MTP-4LC-50-OM4

Cable Kit, Breakout, 40G, MTP to 4 LCs, 50µm, OM4

CKT-MTP-12LC-50-OM4

Cable Kit, Breakout, 100G, MTP to 12 LCs, 50µm, OM4

RK-FLEX-24

Rack Mount, 19"