
TAPstack Series - Cost-Effective Family of TAP to improve network visibility in less space

TAPSTACK SERIES

The TAPstack Series is a family of Passive and Secure Fiber Optic TAPs, designed to enable rapid, effective access to live traffic traversing high-speed optical fibre networks links for network monitoring, analysis and cyber-security applications.

TAPstack provides network operators with the ability to rapidly and effectively deploy analysis tools to observe and monitor high-speed optical networks.

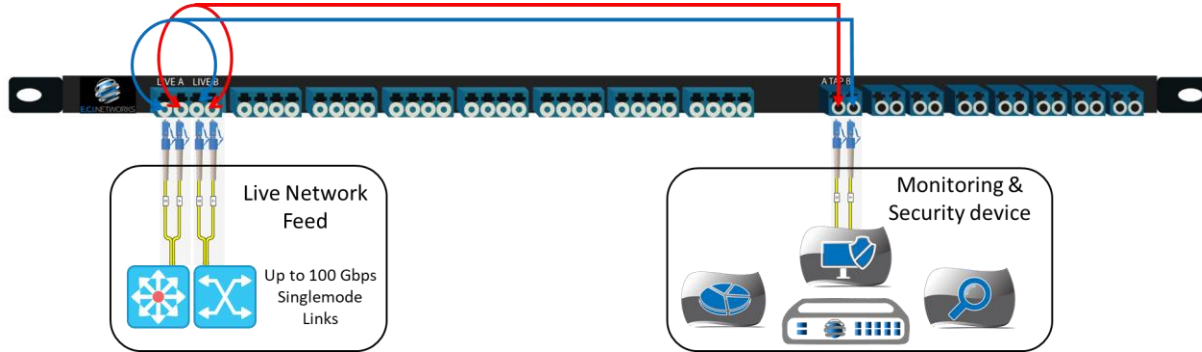
TAPstack is a slim rack-mounted device that supports up to 24 ports in a single rack unit. Models are available to support both duplex and parallel optical links, for multimode (MMF) and singlemode fiber (SMF), and rates right up to 400G.



FEATURES

- 100% passive and fault-tolerant; No impact on traffic; No power source required.
- Secure: no IP address required, no MAC address and cannot be hacked.
- Creates an exact copy of the bi-directional network traffic, including packets with errors.
- No configuration required; Integrates into your cabling infrastructure.
- 400G ZR/ZR+ Coherent support
- Easily connect to all of your Network Tools!
 - Lawful Interception
 - Data Leakage Prevention
 - An Intrusion Detection & Prevention Systems
 - Analyzers, Sniffers, Probes, Compliance
- SLIM design for high-density connectivity
 - up to 24 TAPs with duplex fibre links with LC connectors per 1U
 - up to 24 TAPs with parallel fibre links with MTP connectors per 1U
- TAPstack DUO Comes with dual output LC duplex TAP
 - Up to 18 TAPs per 1U

LC DUPLEX (2-FIBER) OPTICAL LINKS



The TAPstack connects to the live network using LIVE A & B ports, and mirrors traffic to the TAP ports, for inspection by a network analyzer, monitor or security device.

OPTICAL SPECIFICATIONS

Multimode TAP 1G/10G/25G SR					
Split Ratio	50/50	60/40	70/30	80/20	90/10
Max Network Loss	3.7dB	2.7dB	2.1dB	1.4dB	0.9dB
Max Monitor Loss	3.7dB	4.7dB	6.0dB	7.8dB	11.2dB
Singlemode Passive TAP 1G/10G/25G/40G/50G/100G /400G					
Split Ratio	50/50	60/40	70/30	80/20	90/10
Max Network Loss	3.4dB	2.4dB	1.9dB	1.25dB	0.65dB
Max Monitor Loss	3.4dB	4.4dB	5.7dB	7.60dB	10.65dB

PHYSICAL SPECIFICATIONS

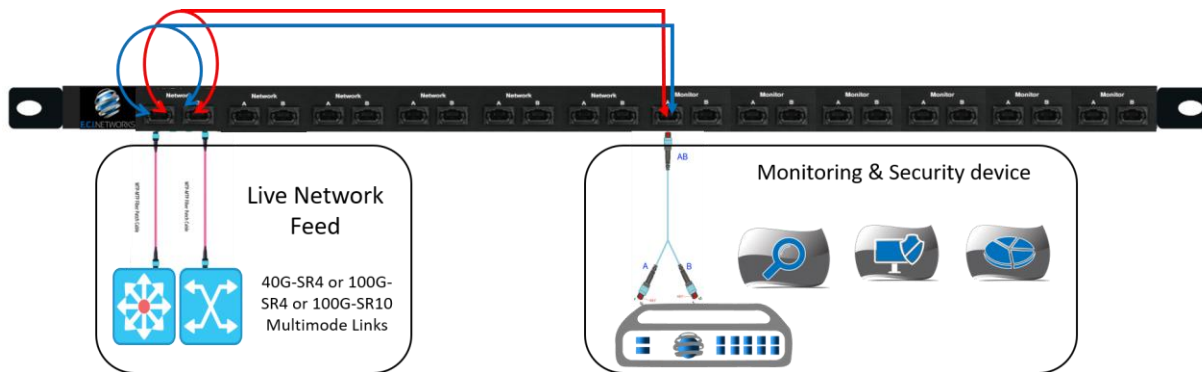
Types	
Power Requirements	No Power Needed
Connector Types	LC (DUPLEX) for all Live and monitor ports
Wavelengths	Multimode (62.5/125 micron) for 850nm Singlemode (9/125 micron) 1310nm/1550nm
Split Ratios available	90/10, 80/20, 70/30, 60/40, 50/50
Operating Temperature	0°C to 60°C
Operating Humidity	10% to 90%, relative, non-condensing
Storage Temperature	-20°C to 70°C
Storage Humidity	10% to 90%, relative, non-condensing
Height	1/3 RU (three different TAPs can be mounted in 1U)

ORDERING INFORMATION

Part Number	Description
TAPstack TAPs 1G/10G/25G Multimode SR, 850nm (other splits ratios available 90/10, 80/20, 60/40)	
EN-TPSTCK1L25G-M55	TAPstack device with One Link Passive fibre TAP supports Multimode 1G/10G/25G SR, Split ratio of 50/50, Slim 1/3U of 19" Rack height

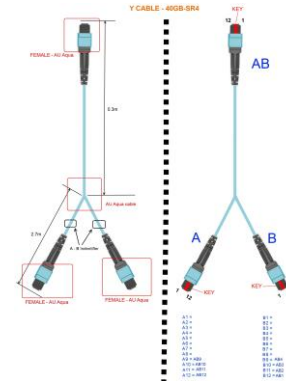
EN-TPSTCK2L25G-M55	TAPstack device with Two Links Passive fibre TAP supports Multimode 1G/10G/25G SR, Split ratio of 50/50, Slim 1/3U of 19" Rack height
EN-TPSTCK4L25G-M55	TAPstack device with Four Links Passive fibre TAP supports Multimode 1G/10G/25G SR, the Split ratio of 50/50, Slim 1/3U of 19" Rack height
EN-TPSTCK8L25G-M55	TAPstack device with Eight (8) Links Passive Fiber TAPs supports Multimode 1G/10G/25G SR, Split ratio of 50/50, Slim 1/3U of 19" Rack height
EN-TPSTCK1L25G-M73	TAPstack device with One Link Passive fibre TAP supports Multimode 1G/10G/25G SR, Split ratio of 70/30, Slim 1/3U of 19" Rack height
EN-TPSTCK2L25G-M73	TAPstack device with Two Links Passive fibre TAP supports Multimode 1G/10G/25G SR, Split ratio of 70/30, Slim 1/3U of 19" Rack height
EN-TPSTCK4L25G-M73	TAPstack device with Four Links Passive fibre TAP supports Multimode 1G/10G/25G SR, Split ratio of 70/30, Slim 1/3U of 19" Rack height
EN-TPSTCK8L25G-M73	TAPstack device with Eight (8) Links Passive fibre TAPs supports Multimode 1G/10G/25G SR, Split ratio of 70/30, Slim 1/3U of 19" Rack height
EN-TPSTCK1L25G-M73	TAPstack device with One Link Passive fibre TAP supports Multimode 1G/10G/25G SR, Split ratio of 70/30, Slim 1/3U of 19" Rack height
TAPstack TAPs 1G/10G/25G/40G/50G/100G LR, 1310nm/1550nm (other splits ratios available 90/10, 80/20, 60/40)	
EN-TPSTCK1L400G-S73	TAPstack device with One Link Passive fibre TAP supports singlemode 1G/10G/25G/40G/50G/100G LR, the Split ratio of 70/30, Slim 1/3U of 19" Rack height
EN-TPSTCK2L400G-S73	TAPstack device with Two Links Passive Fiber TAPs supports singlemode 1G/10G/25G/40G/50G/100G LR, Split ratio of 70/30, Slim 1/3U of 19" Rack height
EN-TPSTCK4L400G-S73	TAPstack device with Four Links Passive fibre TAP supports singlemode 1G/10G/25G/40G/50G/100G LR, the Split ratio of 70/30, Slim 1/3U of 19" Rack height
EN-TPSTCK8L400G-S73	TAPstack device with Eight (8) Links Passive Fiber TAPs supports singlemode 1G/10G/25G/40G/50G/100G LR, the Split ratio of 70/30, Slim 1/3U of 19" Rack height

MPO/MTP PARALLEL (8-FIBER/20-FIBER) TAP



The TAPstack MTP TAP is designed to simplify the cabling infrastructure for 40G/100/400G. Each TAP requires an MTP Y cable that splits the input feed from the TAP port to two ports on the network packet broker or on the monitoring tool.

- Available for 40G-SR4, and 100G-SR4 links
 - using an MPO-12 Y connector
 - multi-mode OM4 fibre.
- Available 100G SR10 links
 - MPO-24 Cabling is primarily used
 - multi-mode OM4 fibre
- Available 100G PSM4 and 400G DR4/xDR4/DR4+ links
 - MPO-12 Cabling is primarily used
 - Single-mode OS2 fibre



OPTICAL SPECIFICATIONS

Multimode 40Gbps/100/400Gbps SR-4			
Split Ratio	50/50	60/40	70/30
Max Network Loss	3.7dB	2.7dB	2.1dB
Max Monitor Loss	3.7dB	4.7dB	6.0dB
Multimode 40Gbps/100/400Gbps SR-10			
Split Ratio	50/50	60/40	70/30
Max Network Loss	3.9dB	3.15dB	2.2dB
Max Monitor Loss	3.9dB	5.15dB	6.2dB

PHYSICAL SPECIFICATIONS

Types	
Power Requirements	No Power Needed
Connector Types	MTP for all Live and monitor ports
Wavelengths	Multimode (62.5/125 micron) for 850nm Singlemode (9/125 micron) 1310nm/1550nm
Split Ratios available	90/10, 80/20, 70/30, 60/40, 50/50
Operating Temperature	0°C to 60°C
Operating Humidity	10% to 90%, relative, non-condensing
Storage Temperature	-20°C to 70°C
Storage Humidity	10% to 90%, relative, non-condensing
Height	1/3 RU (three different devices can be mounted in 1U)

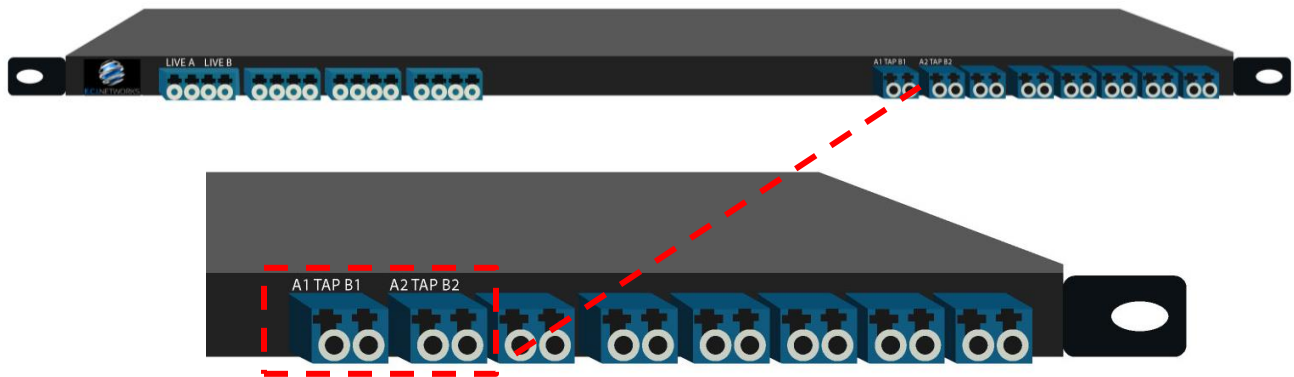
ORDERING INFORMATION

Part Number	Description
TAPstack TAPs 40G/50G/100G/400G Multimode SR4, 850nm (other splits ratios available 10/90, 20/80, 40/60)	
EN-TPSTCK1L100G-M55	TAPstack device with One Link Passive fiber TAP supports Multimode MTP to MTP 40G/50G/100G SR, Split ratio of 50/50, Slim 1/3U of 19" Rack height, Net2XMTP/Mon1XMTP per link, requires MTP Y Cable (PN# EN-YMTP8F-OM4-3M)
EN-TPSTCK2L100G-M55	TAPstack device with TWO Links Passive fiber TAPs supports Multimode MTP to MTP 40G/50G/100G SR, Split ratio of 50/50, Slim 1/3U of 19" Rack height Net2XMTP/Mon1XMTP per link, requires MTP Y Cable (PN# EN-YMTP8F-OM4-3M)
EN-TPSTCK4L100G-M55	TAPstack device with FOUR Links Passive fiber TAPs supports Multimode MTP to MTP 40G/50G/100G SR, Split ratio of 50/50, Slim 1/3U of 19" Rack height Net2XMTP/Mon1XMTP per link, requires MTP Y Cable (PN# EN-YMTP8F-OM4-3M)
EN-TPSTCK8L100G-M55	TAPstack device with SIX (8) Links Passive fiber TAPs supports Multimode MTP to MTP 40G/50G/100G SR, Split ratio of 50/50, Slim 1/3U of 19" Rack height Net2XMTP/Mon1XMTP per link, requires MTP Y Cable (PN# EN-YMTP8F-OM4-3M)
EN-TPSTCK1L100G-M73	TAPstack device with One Link Passive fiber TAP supports Multimode MTP to MTP 40G/50G/100G SR, Split ratio of 70/30, Slim 1/3U of 19" Rack height Net2XMTP/Mon1XMTP per link, requires MTP Y Cable (PN# EN-YMTP8F-OM4-3M)
EN-TPSTCK2L100G-M73	TAPstack device with TWO Links Passive fiber TAPs supports Multimode MTP to MTP 40G/50G/100G SR, Split ratio of 70/30, Slim 1/3U of 19" Rack height Net2XMTP/Mon1XMTP per link, requires MTP Y Cable (PN# EN-YMTP8F-OM4-3M)
EN-TPSTCK4L100G-M73	TAPstack device with FOUR Links Passive fiber TAPs supports Multimode MTP to MTP 40G/50G/100G SR, Split ratio of 70/30, Slim 1/3U of 19" Rack height Net2XMTP/Mon1XMTP per link, requires MTP Y Cable (PN# EN-YMTP8F-OM4-3M)
EN-TPSTCK8L100G-M73	TAPstack device with SIX (8) Links Passive fiber TAPs supports Multimode MTP to MTP 40G/50G/100G SR, Split ratio of 70/30, Slim 1/3U of 19" Rack height Net2XMTP/Mon1XMTP per link, requires MTP Y Cable (PN# EN-YMTP8F-OM4-3M)
EN-YMTP8F-OM4-3M	1x MTP 8 fibers Female to 2x MTP 4 fibers Female, OM4, Polarity B, Breakout length,0.5m. 3m.
EN-TPSTCK2L400G-PS73	TAPstack device with TWO (2) Links Passive fiber TAPs supports parallel SMF Singlemode MTP to MTP 100G/400G, APC, Split ratio of 30/70, Slim 1/3U of 19" Rack height Net2XMTP/Mon1XMTP per link, requires MTP Y Cable (PN# EN-YMTP8F-SM-3M) compatible with 400G DR4, XDR4/DR+, 40G/100G PSM4, PLR4,)
EN-TPSTCK4L400G-PS73	TAPstack device with FOUR (4) Links Passive fiber TAPs supports parallel SMF Singlemode MTP to MTP 100G/400G, APC, Split ratio of 30/70, Slim 1/3U of 19" Rack height Net2XMTP/Mon1XMTP per link, requires MTP Y Cable (PN# EN-YMTP8F-SM-3M) compatible with 400G DR4, XDR4/DR+, 40G/100G PSM4, PLR4,
EN-TPSTCK8L400G-PS73	TAPstack device with EIGHT (8) Links Passive fiber TAPs supports parallel SMF Singlemode MTP to MTP 100G/400G, APC, Split ratio of 30/70, Slim 1/3U of 19" Rack height Net2XMTP/Mon1XMTP per link, requires MTP Y Cable

	(PN# EN-YMTP8F-SM-3M) compatible with 400G DR4, XDR4/DR+, 40G/100G PSM4, PLR4,
TAPstack TAPs 100G Multimode SR10, 850nm (other splits ratios available 10/90, 20/80, 40/60)	
EN-TPSTCK1LSR10-M55	TAPstack device with One Link Passive Fiber TAP supports Multimode MTP to MTP 100G SR10, Split ratio of 50/50, Slim 1/3U of 19" Rack height
EN-TPSTCK2LSR10-M55	TAPstack device with TWO Links Passive Fiber TAPs supports Multimode MTP to MTP 100G SR10, Split ratio of 50/50, Slim 1/3U of 19" Rack height
EN-TPSTCK4LSR10-M55	TAPstack device with FOUR Links Passive Fiber TAPs supports Multimode MTP to MTP 100G SR10, Split ratio of 50/50, Slim 1/3U of 19" Rack height
EN-TPSTCK6LSR10-M55	TAPstack device with SIX (6) Links Passive Fiber TAPs supports Multimode MTP to MTP 100G SR10, Split ratio of 50/50, Slim 1/3U of 19" Rack height

TAPSTACK DUO DUAL OUTPUT LC TAP

- Comes with dual output LC duplex TAP
- splits the optical signal twice in order to provide two monitor output signals from a single link. These two output signals can be connected to two separate monitoring systems, to be filtered and analyzed in different ways.
- available in Multi-Mode (850nm OM4) up to 25Gbps
 - with a 50/25/25 or 40/30/30 split ratio
- available in Single-Mode (1310/1550nm 9/125µm) up to 100Gbps
 - with a 50/25/25 40/30/30 split ratio



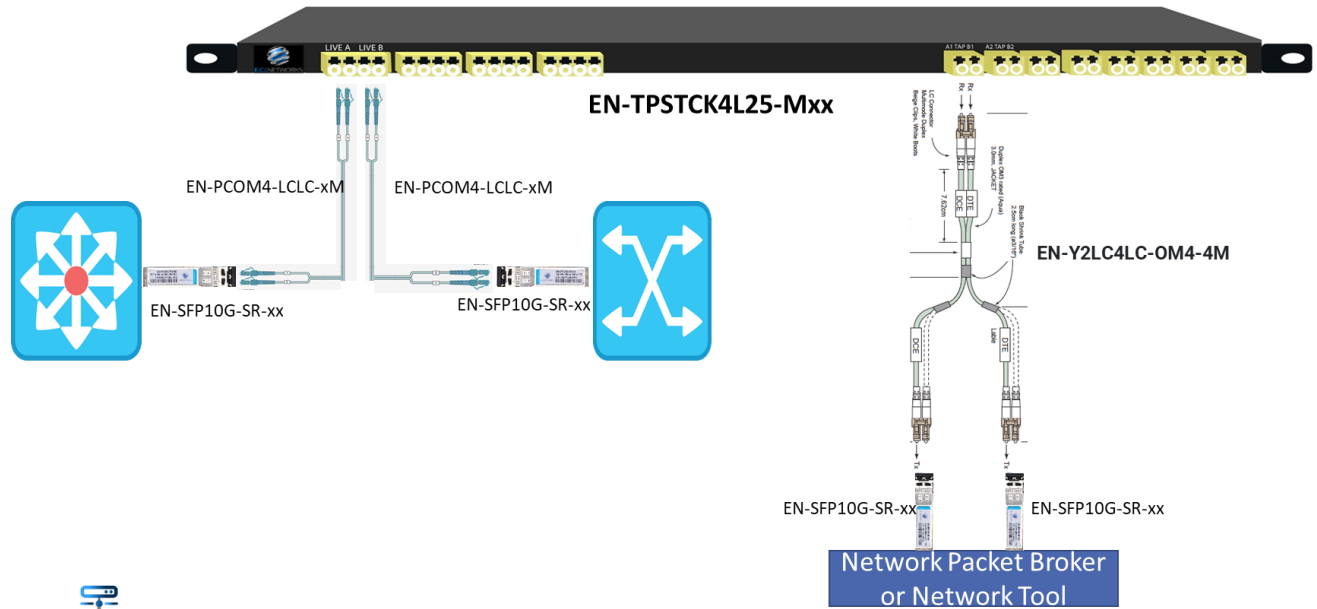
ORDERING INFORMATION

Part Number	Description
TAPstack DUO: Dual Output LC TAP for LC Duplex links	
EN-TPSTCKD1L25G-M522	TAPstack DUO device with One Network Link and 2XTAP outputs per device: Multi Mode OM4 LC-LC 1x3 850 fiber coupler, Split Ratio: 50/25/25, Slim 1/3U of 19" Rack height, 1G/10G/25G Net4XLC/Mon4XLC per link
EN-TPSTCKD2L25G-M522	TAPstack DUO device with TWO Network Link and 4XTAP outputs per device: Multi Mode OM4 LC-LC 1x3 850 fiber coupler, Split Ratio: 50/25/25, Slim 1/3U of 19" Rack height, 1G/10G/25G Net4XLC/Mon4XLC per link
EN-TPSTCKD4L25G-M522	TAPstack DUO device with FOUR Network Link and 8XTAP outputs per device: Multi Mode OM4 LC-LC 1x3 850 fiber coupler, Split Ratio: 50/25/25, Slim 1/3U of 19" Rack height, 1G/10G/25G Net4XLC/Mon4XLC per link
EN-TPSTCKD6L25G-M522	TAPstack DUO device with SIX Network Link and 12XTAP outputs per device: Multi Mode OM4 LC-LC 1x3 850 fiber coupler, Split Ratio: 50/25/25, Slim 1/3U of 19" Rack height, 1G/10G/25G Net4XLC/Mon4XLC per link
EN-TPSTCKD1L100G-S522	TAPstack DUO device with One Network Link and 2XTAP outputs per device: Single mode LC-LC 1x3 1310/1550 fiber coupler, Split Ratio: 50/25/25, Slim 1/3U of 19" Rack height, Net4XLC/Mon4XLC per link,

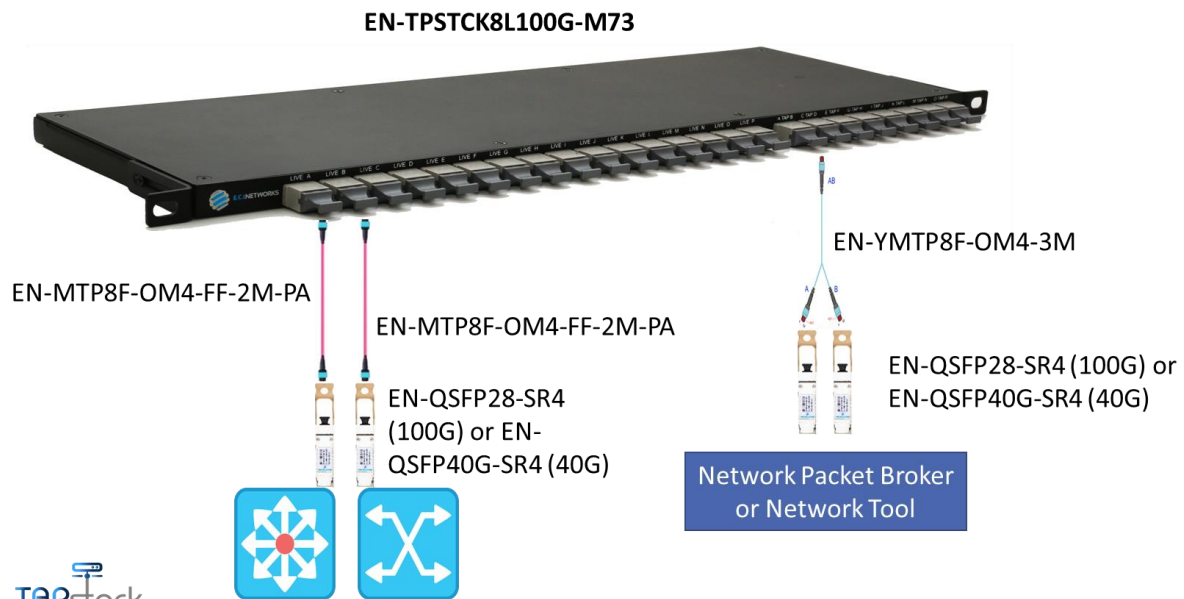
	1G/10G/25G/40G/50G/100G
EN-TPSTCKD2L100G-S522	TAPstack DUO device with TWO Network Link and 4XTAP outputs per device: Single mode LC-LC 1x3 1310/1550 fiber coupler, Split Ratio: 50/25/25, Slim 1/3U of 19" Rack height, Net4XLC/Mon4XLC per link, 1G/10G/25G/40G/50G/100G
EN-TPSTCKD4L100G-S522	TAPstack DUO device with FOUR Network Link and 8XTAP outputs per device: Single mode LC-LC 1x3 1310/1550 fiber coupler, Split Ratio: 50/25/25, Slim 1/3U of 19" Rack height, Net4XLC/Mon4XLC per link, 1G/10G/25G/40G/50G/100G
EN-TPSTCKD6L100G-S522	TAPstack DUO device with SIX Network Link and 12XTAP outputs per device: Single mode LC-LC 1x3 1310/1550 fiber coupler, Split Ratio: 50/25/25, Slim 1/3U of 19" Rack height, Net4XLC/Mon4XLC per link, 1G/10G/25G/40G/50G/100G

CONNECTIVITY USES CASES:

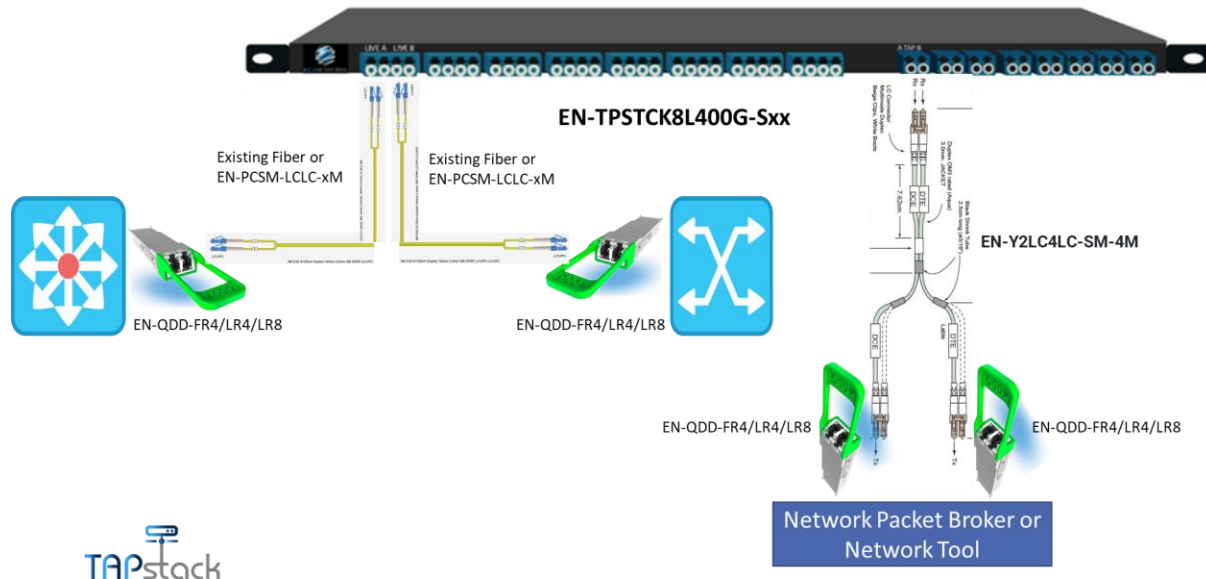
TAPstack Series- Multimode Duplex LC TAP Connectivity example



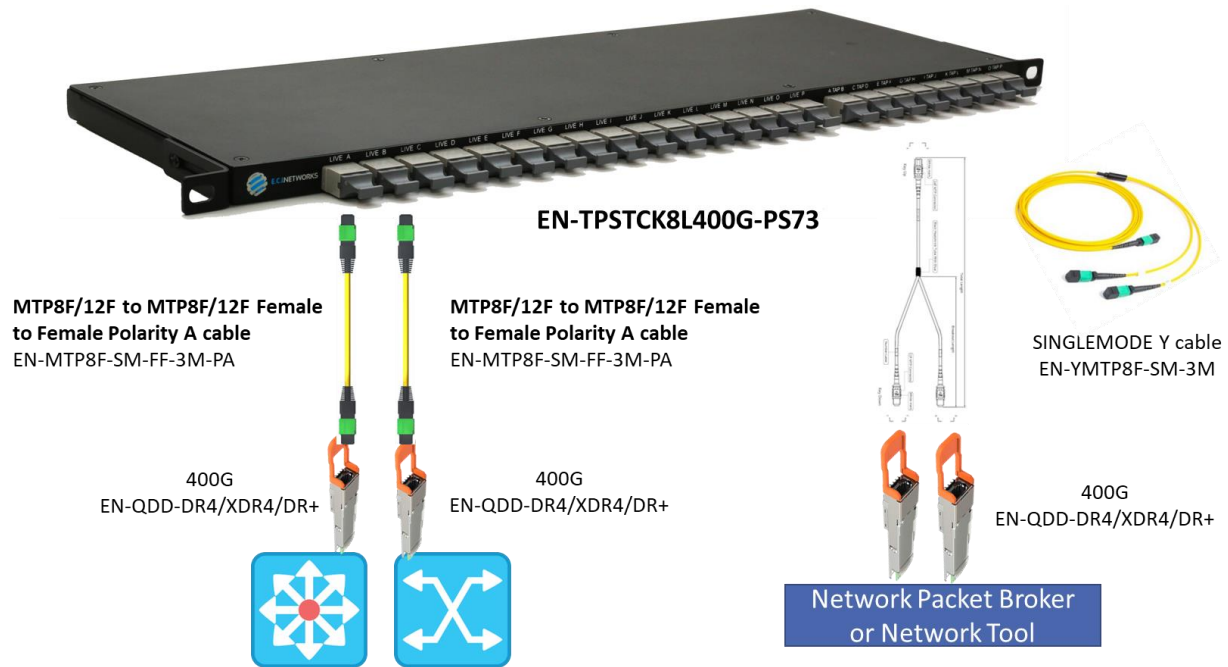
TAPstack Series – MPO/MTP Parallel TAP Connectivity example



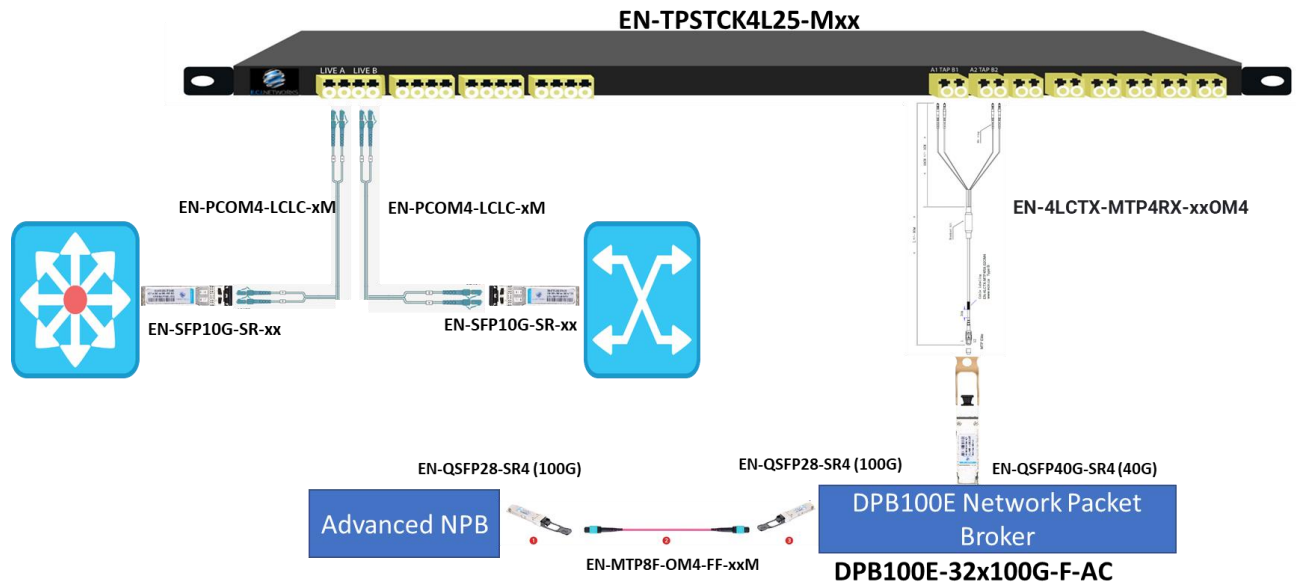
TAPstack Series 100M-400G Singlemode Duplex LC TAP Connectivity example



40G/100G/400G TAP Parallel SMF MTP Connectivity example.



TAPstack Series 10G Multimode Links Monitoring with 100G Disaggregated Packet Broker





E.C.I.NETWORKS

TAPstack series
Passive & Secure Fiber Optic TAPs

Notice:

E.C.I. Networks reserves the right to make changes to or discontinue any optical link product or service identified in this publication, without notice, to improve design and/or performance. Applications that are described herein for any of the optical link products are for illustrative purposes only.

For further information



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