T-30 optical TAP
40/100 Gb - MTP/MPO connectors

Technical Data Sheet

Microtel innovation

T-30 QUAD links version

Product Description

T-30 Optical TAP

Microtel Innovation T-30 is the solution for **tapping 40 Gb/s and 100 Gb/s optical links with MTP/MPO connectors, both Multi-Mode and Single-Mode.** By splitting the ligth optically, it enables passive tapping of full duplex optical links, which avoids any risk for the live network devices to loose the link between one another if power is lost.

T-30 optical TAP **mirrors 100% of network traffic**, including errors, malformed and non-standard packets, so making possible detailed analysis, security and monitoring.

T-30 uses MTP/MPO connectors; it is 1/3U high, so making possible to host up to 3 T-30 in 1U space. Two versions are available:

- **T-30 DUAL links device**, to tap 2 optical multimode or singlemode fiber links, 40 Gb/s and 100 Gb/s

- **T-30 QUAD links device**, to tap 4 optical multimode or singlemode fiber links, 40 Gb/s and 100 Gb/s

Available split ratio have been decided in order to provide the light margins which is usually necessary to the monitored traffic. They are: 50/50 for multimode links, 60/40 for 100 Gb/s singlemode links, 60/40 and 70/30 for 40 Gb/s singlemode links.

T-30 is hosted in an aluminium rack, which ensures a **robust and reliable solution** from a mechanical point of view
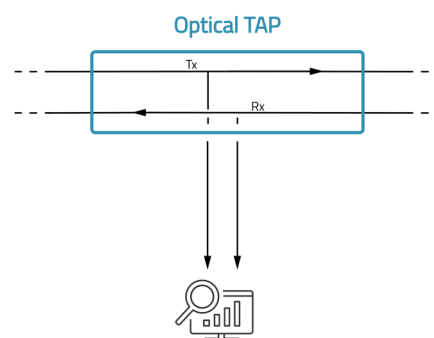
In Ethernet world the T-30 optical TAP, combined with Microtel's Aster Packet Brokers and GTP Balancer and Offloaders, is the best solution to optimize network monitoring systems.

Highlights

- **Deliver 100% visibility** into network traffic preserving top network performances

- **No network impact:** as fully passive TAP, it does not introduce any point of weakness

- **Forward all full duplex traffic** from all layers, including errors and non-standard network traffic

- **Provide safety from remote attacks,** as does not have an IP address

- **Avoid costly expenses** due to SPAN ports management

Key features

- **Non intrusive monitoring**

- **Highspeed and lossless packet handling**

- **No power and no points of failure**

- **High speed 40 Gb/s and 100 Gb/s multimode and singlemode fiber links are managed**

- **Two versions available, DUAL and QUAD link splitters, up to 3xT-30 in 1U space**

Optical TAP

Tx

Rx

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T-30 — Technical Specifications

Density	Up to 4 MTP/MPO links optical TAPs in one rack (1/3U high) Up to 3 T-30 in 1U space (12 links TAPs) Two versions are available, with 2 (DUAL) and 4 (QUAD) links optical TAPs, hosted in the same 1/3U rack
Links	40 Gb/s - Multi-Mode and Single –Mode fiber 100 Gb/s - Multi-Mode and Single –Mode fiber
Split ratio	40 Gb/s Multi-Mode links: 50/50 100 Gb/s Multi-Mode links: 50/50 40 Gb/s Single-Mode links: 60/40 and 70/30 100 Gb/s Single-Mode links: 60/40
Fiber type	Multi-Mode 50/125µm, operating wavelenght: 850nm Single-Mode 9/125µm, operating wavelenght: 1310nm

T-30 — Ordering Information

T-30-2-JK–A-55/MP	19" (1/3U high) chassis with DUAL links optical TAP 40/100 Gb/s Multi-Mode (50/125 µm), MTP/MPO, split ratio 50/50
T-30-4-JK-A–55/MP	19" (1/3U high) chassis with QUAD links optical TAP 40/100 Gb/s Multi-Mode (50/125 µm), MTP/MPO, split ratio 50/50
T-30-2-K-L-64/MP	19" (1/3U high) chassis with DUAL links optical TAP 100 Gb/s Single-Mode (9/125 µm), MTP/MPO, split ratio 60/40
T-30-4-K-L–64/MP	19" (1/3U high) chassis with QUAD links optical TAP 100 Gb/s Single-Mode (9/125 µm), MTP/MPO, split ratio 60/40
T-30-2-J-L-zz/MP **(zz=64 or zz=73**	19" (1/3U high) chassis with DUAL links optical TAP 40 Gb/s Single-Mode (9/125 µm), MTP/MPO, split ratio zz (64 for 60/40 and 73 for 70/30)
T-30-4-J-L–zz/MP **(zz=64 or zz=73)**	19" (1/3U high) chassis with QUAD links optical TAP 40 Gb/s Single-Mode (9/125 µm), MTP/MPO, split ratio zz (64 for 60/40 and 73 for 70/30)

Operating	Power	Dimensions	Regulatory
• Operating temperature: 0°C to 45°C • Storage temperature: —10°C to 70°C • Relative Humidity: min 10% max 95% non-condensing	• No power needed	• Base unit surface or 19" rack mount • Dimensions (WxDxH): 483mm W, 276mm D, 14,5mm H • Weight (fully equipped): 1,5 Kg (3,3 lbs)	• CE Mark

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