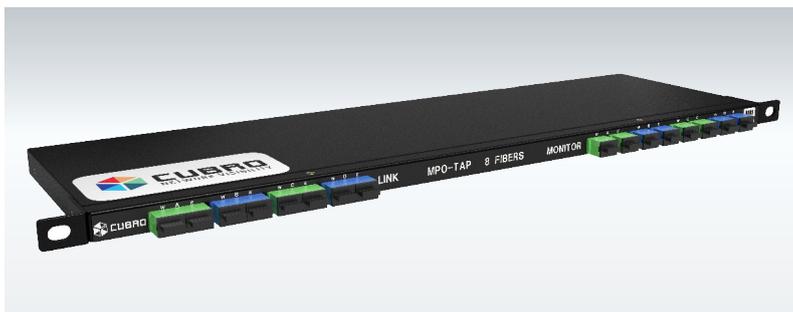# Cubro MTP/MPO TAP - 40 Gbit / 100 Gbit

PRODUCT OVERVIEW

Cubro's MTP/MPO TAPs are passive fibre breakout TAPs that make an identical copy of your network's data, allowing your monitoring tools to see every bit, byte and packet. The small form of the TAPs allows to combine up to three different Slimline (different splitting ratio, or different connectors) TAPs in one RU.

The challenge of tapping a 40 Gbit link or a 100 Gbit link based on a QSFP is that the QSFP is defined as a quad channel interface (Q = quad), thus the link is actually 4 x 10 Gbit or 4 x 25Gbit respectively. These 4 x 10 or 4 x 25 Gbit links are in a type of trunk where the Ethernet frame/packet is being divided into four trunks sent in parallel over each of the four fibre links.

The reassembly of the divided frames/packets is handled by a special Layer 1 protocol at the receiving end. The TAP is connected inline with the 8-fibre MTP link. The MTP/MPO monitor ports feed a copy of the traffic on the link to a set of QSFP receivers on a Cubro Network Packet Broker. The features of the Cubro Packetmaster and Sessionmaster Network Packet Brokers allow the traffic to be reassembled and separated down to 10G or 1G via traffic filters.
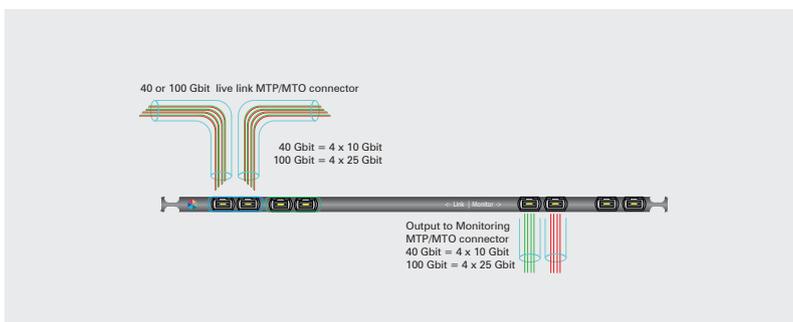
Network TAPs
At a glance

Definition

A network TAP (Test Access Point) is an external monitoring device that mirrors the traffic that passes between two network nodes to a number of monitor ports. A TAP is a hardware device inserted at a specific point in the network to monitor data.

Advantages of a MTP/MPO TAP

- Full transparency allows the user to use optical TAPs for all protocols or data rates up to 100 Gbit

- Designed for high speed and lossless packet handling

- Every device comes with a measurement protocol for every link.One TAP has $\frac{1}{3}$ U form factor (three different TAPs can be mounted in 1U)

- Non-disruptive and fully transparent

- No power supply needed and does not have an IP address, providing safety from remote attacks

- Passive optical TAPs do not modify or affect traffic in any way. They pass exact copies of all frames/packets including errors.

- Cost-effective with high ROI

- Blanking plate available to prevent passage of cold air

FUNCTIONS / BENEFITS

- Cubro's MTP/MPO TAPs simplify cabling infrastructure and cut down on installation times with a single connector
- The monitoring device connected to the MTP/MPO TAPs provides all full-duplex traffic as if it were inline, including Layer 1 and Layer 2 errors

- The MTP/MPO TAPs are compatible with all major manufacturers' monitoring devices, including protocol analyzers, probes, and intrusion detection systems

PRODUCT CAPABILITIES / FEATURES

Link	40 Gbit MTP Multimode 100 Gbit MTP Multimode
Jumbo Frame Support	The TAP is a passive device and can handle every size of frame.
Link Fault Propogation	Due to its fully passive design the TAP is fully transparent to any faults. Thus, if one network side fails, the second link side will also fail without any delay. Re-routing within the network can be initiated within shortest possible time.
Dual Monitor Output	Each link has two monitoring outputs - one for westbound traffic and one for eastbound traffic.
Easy use and operation	Easy operation and installation No PC or software necessary No bugs, no software Updates mean more time for your business
LINKSAVE Function	No switching mechanism is included, the link is always connected. The TAP cannot lose any traffic on the link, even if the monitoring ports get damaged or destroyed or in case of a power failure.
Rugged 19" housing	The TAP features a rugged 19" 1/3RU housing with precise connector labelling on the front panel.

ORDERING INFORMATION

Product Type & Number	Description
CBR.OPTO-MTP-1	MTP TAP 40-100Gbit, Singleport, Multimode, 19" 1/3U height
CBR.OPTO-MTP-2	MTP TAP 40-100Gbit, Dualport, Multimode, 19" 1/3U height
CBR.OPTO-MTP-4	MTP TAP 40-100Gbit, 4 link Multimode, 19" 1/3U height

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