

# Cubro OPTOSLIM TAPs Series (Upto 100 G)

## PRODUCT OVERVIEW



Cubro OPTOSLIM TAPs Series give real-time monitoring access to a physical optical data link with no network performance degradation or disruption. Since the optical TAPs are fully passive (no power supply needed), it is no risk to put them in an active link. These TAPs bring additional optical power loss on the active link depending on the splitting ratio used. Except for this, the equipment is fully transparent.

To maximize link capacity Cubro has introduced the new OPTOSLIM TAPs Series. These units can be mounted on a 19" rack with a height of 1/3 U which gives the possibility to tap 24 optical links reserving only 1U in the rack.

The unit is equipped with standard LC adaptors and is available as Singlemode (1310/1550nm) or Multimode (850/1300nm) version. Standard splitting ratio for the Singlemode TAP is 80%/20% and for the Multimode version is 50%/50%. The Singlemode version can also be delivered in the following splitting ratios on demand:

90%/10%    70%/30%    50%/50%.

Additional to the standard 50%/50%, the MM version is also available in 70%/30%.

## 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. A TAP is a hardware device inserted at a specific point in the network to monitor data.

#### Advantages of OPTOSLIM TAPs

- Full transparency allows user to use optical TAPs for all protocols or data rates up to 100 Gbit
- No power supply needed
- Flexible and scalable
- Every used splitter inside the optical TAP is carefully handled
- Insertion loss is measured before the unit leaves to the customer
- Split ratio can be delivered on demand for single mode version

## Functions / Benefits:

- The OPTOSLIM TAPs passively mirror 100% of network traffic including errors, non-standard network traffic.
- These TAPs rely on passive full duplex fiber optic splitters, which results in non-point-of-failure operation. It requires no power source to operate.
- The OPTOSLIM TAPs give network operators the ability to passively monitor full duplex fiber optic links for a combination of multimode (mm) and/or singlemode (sm).

## PRODUCT CAPABILITIES / FEATURES

Optical connector	LC (Duplex)
Certifications	Fully RoHS compliant
Linksave	No switching mechanism included, the link is always connected. The TAP does not lose any traffic on the link, even if the monitoring ports get damaged or destroyed or in case of a power fail
Link Fault Propagation	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
Power	No power needed
Wavelengths	Singlemode version 1310/1550nm; Multimode version 850/1300nm.
Typical insertion loss link path	Singlemode (80/20) 1.5dB; Multimode version (50/50) 3.8dB
Operating Temperature	0 to 65°C
Operating Humidity	80% maximum relative humidity
Rugged 19" housing	19" 1/3 U high
Dimensions	480 x 147 x 14,5 mm
Weight	1,18 kg

## ORDERING INFORMATION

Product Type & Number	Description
CUB.OPTOSLIM-4L-SM	optical TAP, 4 Links SM; LC connectors, 19" 1/3U height, splitting ratio 80/20
CUB.OPTOSLIM-4L-SM-5	optical TAP, 4 Links SM; LC connectors, 19" 1/3U height, splitting ratio 50/50
CUB.OPTOSLIM-4L-SM-7	optical TAP, 4 Links SM; LC connectors, 19" 1/3U height, splitting ratio 70/30
CUB.OPTOSLIM-8L-SM	optical TAP, 8 Links SM; LC connectors, 19" 1/3U height, splitting ratio 80/20
CUB.OPTOSLIM-8L-SM-5	optical TAP, 8 Links SM; LC connectors, 19" 1/3U height, splitting ratio 50/50
CUB.OPTOSLIM-8L-SM-7	optical TAP, 8 Links SM; LC connectors, 19" 1/3U height, splitting ratio 70/30
CUB.OPTOSLIM-4L-MM	optical TAP, 4 Links MM 50/125 $\mu$ ; LC connectors, 19" 1/3U height, splitting ratio 50/50
CUB.OPTOSLIM-4L-MM6	optical TAP, 4 Links MM 62,5/125 $\mu$ ; LC connectors, 19" 1/3U height, splitting ratio 50/50
CUB.OPTOSLIM-4L-MM-7	optical TAP, 4 Links MM 50/125 $\mu$ ; LC connectors, 19" 1/3U height, splitting ratio 70/30
CUB.OPTOSLIM-8L-MM	optical TAP, 8 Links MM 50/125 $\mu$ ; LC connectors, 19" 1/3U height, splitting ratio 50/50
CUB.OPTOSLIM-8L-MM6	optical TAP, 8 Links MM 62,5/125 $\mu$ ; LC connectors, 19" 1/3U height, splitting ratio 50/50
CUB.OPTOSLIM-8L-MM-7	optical TAP, 8 Links MM 50/125 $\mu$ ; LC connectors, 19" 1/3U height, splitting ratio 70/30
CUB.OPTOSLIM-4L-MIX	optical TAP, 2 Links SM 80/20 and 2 Links MM 50/50, LC connectors, 19" 1/3U height
CUB.OPTOSLIM-4L-MIX	optical TAP, 2 Links SM 80/20 and 2 Links MM 50/50, LC connectors, 19" 1/3U height
CUB.OPTOSLIM-8L-MIX	optical TAP, 4 Links SM 80/20 and 4 Links MM 50/50, LC connectors, 19" 1/3U height
CUB.BLIND-19-1/3	Blindplate for 19" rackmount 1/3U height

# Cubro Optical TAP - 1 Link and 2 Links

## PRODUCT OVERVIEW



An optical TAP gives you real-time monitoring access to a physical optical data link without interfering it. Due to the fact that the optical TAP is fully passive (no power supply needed) it is no risk to put it in an active link.

The only thing that needs to be considered is that the TAP brings you additional optical power loss on the active link depending on the splitting ratio used. Except for this, the equipment is fully transparent.

The unit is equipped with standard LC adaptors and is available as singlemode (1310/1550nm) or multimode (850/1300nm) version.

The singlemode TAP is available in 80/20, 50/50 splitting ratios as standard. There are other ratios possible, please contact us for confirmation.

The multimode TAP can be 50/50 or 70/30 as standard. In case other ratios are needed, please contact us.

It is possible to build up to 3 units in the optional available rackmount kit which will be 19" and 1U height.

Due to the full transparency you can use our optical TAPs for all protocols or data rates up to 100 Gbit

Every used splitter inside the optical TAP is carefully handled and insertion loss is measured before the unit leaves to the customer.

## Network TAP 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. A TAP is a hardware device inserted at a specific point in the network to monitor data.

### Advantages of Cubro Optical TAP

- Full transparency allows user to use optical TAPs for all protocols or data rates up to 100 Gbit
- No power supply needed
- Flexible and scalable
- Every used splitter inside the optical TAP is carefully handled
- Insertion loss is measured before the unit leaves to the customer
- Split ratio can be delivered on demand for single mode version

## PRODUCT CAPABILITIES / FEATURES

Tapping optical fibres	One link two fibers to two outputs
Fault Propagation	If the link on the input port is going down the output ports will follow without any delay.
LED Indicators	No LEDs
Power Versions	Fully passive
Propagation Delay (In to Out)	No delay at all
MTBF	N/A
Operating Temperature	0 to 55°C
Operating Humidity	80% maximum relative humidity
Physical Dimensions (H x W x D)	3 x 11,2 x 17 cm 1,8 x 4,4 x 6,7 in
Rugged Aluminium Housing	Stable Aluminium Housing with precise connector labelling on front panel. 19" rack mountkit also available

## ORDERING INFORMATION

Product Type & Number	Description
CBR.OPTO-1-SM-R3	Optical TAP, 1 Link SM 1310/1550nm LC, 2 Monitor Ports LC; 1/3 19" rackmount housing, splitting ratio 80%/20% (rackmount kit not included)
CBR.OPTO-1-SM-5-R3	Optical TAP, 1 Link SM 1310/1550nm LC, 2 Monitor Ports LC; 1/3 19" rackmount housing, splitting ratio 50%/50% (rackmount kit not included)
CBR.OPTO-2-SM-R3	Optical TAP, 2 Links SM 1310/1550nm LC, 4 Monitor Ports LC; 1/3 19" rackmount housing, splitting ratio 80%/20% (rackmount kit not included)
CBR.OPTO-2-SM-MM-R3	Optical TAP, 1 Link SM and 1 Link MM LC , 4 Monitor Ports LC; 1/3 19" rackmount housing, splitting ratio 80%/20% SM and 50%/50% MM
CBR.OPTO-1-MM-R3	Optical TAP, 1 Link MM 850/1300nm LC, 2 Monitor Ports LC; 1/3 19" rackmount housing, splitting ratio 50%/50% (rackmount kit not included)
CBR.OPTO-1-MM-7-R3	Optical TAP, 1 Link MM 850/1300nm LC, 2 Monitor Ports LC; 1/3 19" rackmount housing, splitting ratio 70%/30% (rackmount kit not included)
CBR.OPTO-2-MM-R3	Optical TAP, 2 Links MM 850/1300nm LC, 4 Monitors

For more information please check our website [www.cubro.com](http://www.cubro.com)