




CUBRO
NETWORK VISIBILITY

BREAKOUT BOXES

DATA SHEET



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to ensure you have the most up-to-date information.

Functions / Benefits:

- High density
- Exceptional quality and construction
- Supports up to 400G
- Low insertion loss
- Completely passive
- Fail-safe
- Reduce cable clutter
- Maximize efficiency of MTP ports on devices

Applications:

- Telecommunications providers
- ISPs and other service providers
- Data centers
- Large networking deployments
- Test equipment, testing labs

Product Overview



The Cubro Breakout Box is a 1/3 RU passive optical device that splits an MTP link out to its constituent 4 fiber pairs with LC connectors. The Cubro Breakout Box is constructed in a 1/3 RU chassis, the same form factor as our acclaimed OptoSlim TAPs, and is built and tested to the same rigorous standards as all our optical TAPs. The Breakout Box is available in Single Mode and Multi-Mode (50/125 μ) versions and two different port densities. Breakout Boxes can be used with 2 MTP connectors that break out to 8 LC Duplex connectors or with 4 MTP connectors that break out to 16 LC Duplex connectors. All models are tested to handle data rates up to 400G.

Similar to optical TAPs, these devices are completely passive and fail-safe, requiring no power. They are transparent and do not alter network traffic in any way. There is only a small amount of insertion loss introduced by the Breakout Box. The unique form factor of Cubro's Breakout Boxes allows for exceptional port density as it is possible to break out 12 MTP (96 individual fibers or 48 fiber pairs) connections in a 1RU space. Using breakout boxes at key points in your installation can drastically simplify fiber runs and reduce cable clutter. Combining Cubro's Breakout Boxes with Cubro's Optoslim TAPs of the same form factor further enhances flexibility and customization.

The Breakout Box can be used to combine multiple monitor links from a LC TAP into an MTP connection to be sent to a Network Packet Broker's MTP/MPO QSFP connections freeing up SFP ports for other uses and reduced cabling.

Typical Applications:

Bidirectional conversion from LC to MTP such as:

- 4 x 10G SR <--> 1 x 40G SR4
- 4 x 25G SR <--> 1 x 100G SR4
- 4 x 10G LR <--> 1 x 40G PSM4
- 4 x 25G LR <--> 1 x 100G PSM4
- 4 x 100G DR1 <--> 1 x 400G DR4

Performance Specifications

		SM	MM
Operating Wavelength	nm	1310,1550	850,1300
Insertion Loss typical	dB	≤0.2dB	≤0.2dB
Insertion loss maximum	dB	≤0.5dB	
Return Loss	dB	≥50dB	≥35dB
Operating temperature	°C	-40 to +75	

Ordering Information

Product Type & Number	Description
CUB.BREAKBOX-8P-SM-MT	Breakoutbox Singlemode 8 x LC Duplex to 2 x MTP connector, 19" 1/3U height
CUB.BREAKBOX-8P-MM-MT	Breakoutbox Multimode 8 x LC Duplex to 2 x MTP connector, 19" 1/3U height
CUB.BREAKBOX-16P-SM-MT	Breakoutbox Singlemode 16 x LC Duplex to 4 x MTP connector, 19" 1/3U height
CUB.BREAKBOX-16P-MM-MT	Breakoutbox Multimode 16 x LC Duplex to 4 x MTP connector, 19" 1/3U height

For more information please check our website www.cubro.com.