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MTP[®] / MPO port breakout

PRODUCT INFORMATION



MTP[®] / MPO port breakout:

This document descibes our **port breakout** called solutions to separate the **duplex ports within MPO transceivers to duplex transceivers** (e.g. LC-Duplex, MDC, SN[®]).



MTP[®] / MPO port breakout:

Multimode:

- 40GBASE-SR4 MPO4+4 to 4x 10GBASE-SR/SW LC-Duplex/MDC/SN®
- 100GBASE-SR4 MPO4+4 to 4x 25GBASE-SR/SW LC-Duplex/MDC/SN[®]
- 200GBASE-SR4 MPO4+4 to 4x 50GBASE-SR/SW LC-Duplex/MDC/SN[®]
- 400GBASE-SR4 MPO4+4 to 4x 100GBASE-SR/SW LC-Duplex/MDC/SN[®]
- 400GBASE-SR8 MPO16 to 8x 50GBASE-SR/SW LC-Duplex/MDC/SN[®]
- 4x16GFC MPO4+4 to 4x 16GFC LC-Duplex/MDC/SN[®]
- 4x32GFC MPO4+4 to 4x 32GFC LC-Duplex/MDC/SN[®]
- 4x64GFC MPO4+4 to 4x 64GFC LC-Duplex/MDC/SN[®]

Singlemode:

- 100GBASE DR4/PSM4 MPO4+4 to 4x 25GBASE-LR LC-Duplex/MDC/SN[®]
- 4x10GBASE-LR MPO4+4 to 4x 10GBASE-LR LC-Duplex/MDC/SN[®]
- 200GBASE-DR4 MPO4+4 to 4x 50GBASE-LR LC-Duplex/MDC/SN[®]
- 400GBASE-DR4 MPO4+4 to 4x 100GBASE-LR LC-Duplex/MDC/SN[®]
- 800GBASE-DR8/PSM8 MPO16 to 8x 100G LC-Duplex/MDC/SN[®]

Option 1: Direct by MTP® Harness

Example here OCTO 8 fiber and SEDECIM 16 fiber with LC-COMPACT (LCC)

With LCC-PPB, MDC and SN[®] see MTP[®] Harness



Option 2: By MTP[®] Harness via SMAP-G2 Panel – LC

Example here OCTO 8 fiber OM4 MTP®-LCC Harness:



This option is as well with SN[®] Option 2.1: By MTP® Harness via SMAP-G2 Panel - MDC instead of MDC deliverable Example here OCTO 8 fiber MTP[®]-MDC Harness: Maximum fast and secure installation! Quad coupler must be plugged MPO 4+4 OCTO Transceiver Quad coupler remain in operation SMAP-G2 SD 19" 1HU, 200mm deep, with back plane

Trunk legs with MDC Quad couplers are plugged into the empty part front plates from the rear









- Reduction of panel installation time by 75%. Instead of four single MDC connectors per MDC Quad, only one trunk leg with MDC
- MDC Quad couplers at MDC connectors of the trunk legs protecting the connector tip surfaces against contamination and damage - Position permutation within the MDC Quad couplers are excluded by factory assembling

The individual MDC connectors at the trunk legs, can be unplugged in case of service is needed, the other three within the MDC

1HU 64 MDC ports

Option 3: By MTP[®] Harness via telescopic panel – LC

Example here OCTO 8 fiber OM4 MTP[®]-LCC Harness:





Conventional (ECO) 19" 1HU telescopic panel, with back plane to accommodate 2x6=12 harness dividers Part number with 24 LCQ OM4 violet couplers: OSI-SONDERGEH1002 others on request

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MDC

Option 3.1: By MTP® Harness via telescopic panel -



This option is as well with SN[®]

Option 4: By OCTO MTP[®]-LC Port Breakout Unit



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Option 5: By OCTO MTP® Module-Cassette SMAP-G2 SD



Option 5.1: By OCTO MTP[®] Module-Cassette SMAP-G2 HD 1/6



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1HU 144 MDC ports

Option 5.3: By SEDECIM MTP® Module-Cassette SMAP-G2 HD 1/3



- within their back planes
- SM must have polarity A "1 to 1", because SM cassettes have type B "opposed keys" MTP[®] couplers within their back planes



SMAP-G2 HD 19" 1HU, open, 6/6 width partition Part number: 171H0041



MDC Patchcords

Front granularity HD 1HU 6/6 width partition					
1	4	7	10	13	16
2	5	8	11	14	17
3	6	9	12	15	18





SMAP-G2 HD 1/3HU 1/6 blind part front plate Part number: 171H0002

Option 6: Via Trunk cabling by MTP® Harness

PreCONNECT® OCTO MTP®

PreCONNECT® SEDECIM MTP®

Example here OCTO 8 fiber with SMAP-G2 HD:



Option 7: Via Trunk cabling by MTP® Module-Cassette

Example here OCTO 8 fiber with VersaTray:



About Rosenberger OSI:

Since 1991, Rosenberger Optical Solutions & Infrastructure (Rosenberger OSI) has been a recognized expert for fiber-based connectivity, cabling solutions and infrastructure services in the areas of data centers, local area networks, mobile networks and industrial applications. As an integrated solution provider, we have high expertise in the development and operational excellence in the production of system solutions for communication networks. Our comprehensive services enable the secure and efficient operation of digital infrastructures. This combination, combined with our strong customer focus, makes us unique and a strong partner in the global market.

Rosenberger OSI has been part of the globally operating Rosenberger Group since 1998. The Rosenberger Group is a leading global provider of high-frequency, high-voltage and fiber optic connectivity solutions with headquarters in Germany. For further information, please visit: <u>www.rosenberger.com/osi</u>

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