

Fiber Transition Module



Features & Benefits

- Extremely compact design (tool-less installation)
- Shuttered LC Quad adapters for dust/laser protection
- Available in OS2, OM3 and OM4 fiber types
- Ultra-low loss performance for increased link flexibility (cross-connect configurations)
- Available in Base-8 or Base-12 configurations
- Assembled with bend-optimised fiber assemblies
- Clear port identification and traceability



Overview

Transition modules allow users to convert Base-8 or Base-12 MPO trunk cables to Base-2 LC adapters, which match the transceivers of nearby switches and servers. The MPO connection at the rear of the module provides a high degree of flexibility because the transition module can be easily upgraded to an MPO conversion/patching module at a later stage. This allows users to upgrade from 1G/10G data rates (serial optics) to 40G or 100G data rates (parallel optics).

Technical Data

Mechanical Data

Specification	Value
Dimensions (W x D x H)	86mm (3.38 in) x 167mm (6.57 in) x 12.1mm (0.47 in)
Weight	85 grams (0.085 kg)
Material / colour	PC/ABS Anthracite Grey RAL 7016
Adapter type front	Shuttered LC Quad
Adapter quantity front	2 x LC Quad (Base-8), 3 x LC Quad (Base-12)
Adapter color front	Blue (OS2), Green (OS2 APC), Aqua (OM3), Heather Violet (OM4)

Optical Data

Specification	Value
Fiber count	Base-8 (8 fiber), Base-12 (12 fiber)
Fiber category	OS2 - 9/125 bend-insensitive, OM3/4/5 - 50/125 μ m bend-optimized
Module IL (Low Loss)	Single mode OS2 ≤ 1.0 dB Multimode OM3/OM4 ≤ 0.5 dB
Module IL (Ultra Low Loss)	Single mode OS2 ≤ 0.6 dB Multimode OM3/OM4 ≤ 0.35 dB
Module return loss	Singlemode OS2 UPC ≥ 0.5 dB Singlemode OS2 APC ≥ 0.6 dB Multimode OM3/OM4 ≥ 0.3 dB

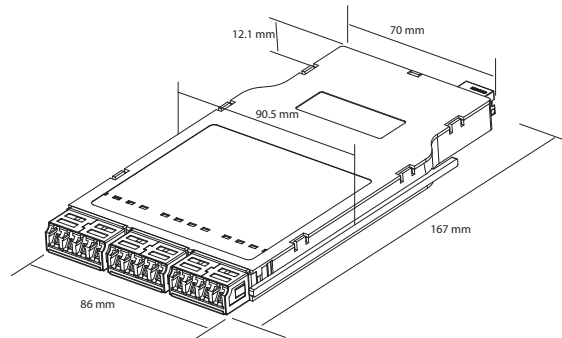
Environmental Data

Specification	Value
Free of halogen	Yes
2011/65/EC RoHS	Fully compliant

Fiber Transition Module



Technical Drawing



Ordering Information

TM01

1 2 3 4 5 6

1. Select MPO type (rear)

- 30 = MTP 8 fiber Female (no pins)
- 31 = MTP APC 8 fiber Female (no pins)
- 32 = MTP 8 fiber Male (pinned)
- 33 = MTP APC 8 fiber Male (pinned)
- 34 = MPO PLUS Universal 8 fiber Female (no pins)
- 35 = MPO PLUS APC Universal 8 fiber Female (no pins)
- 36 = MPO PLUS Universal 8 fiber Male (pinned)
- 37 = MPO PLUS APC Universal 8 fiber Male (pinned)
- 40 = MTP 12 fiber Female (no pins)
- 41 = MTP APC 12 fiber Female (no pins)
- 42 = MTP 12 fiber Male (pinned)
- 43 = MTP APC 12 fiber Male (pinned)
- 44 = MPO PLUS Universal 12 fiber Female (no pins)
- 45 = MPO PLUS Universal APC 12 fiber Female (no pins)
- 46 = MPO PLUS Universal 12 fiber Male (pinned)
- 47 = MPO PLUS Universal APC 12 fiber Male (pinned)
- 60 = MTP 24 fiber Female (no pins)
- 61 = MTP APC 24 fiber Female (no pins)
- 62 = MTP 24 fiber Male (pinned)
- 63 = MTP APC 24 fiber Male (pinned)
- 64 = MPO PLUS Universal 24 fiber Female (no pins)
- 65 = MPO PLUS APC Universal 24 fiber Female (no pins)
- 66 = MPO PLUS Universal 24 fiber Male (pinned)
- 67 = MPO PLUS APC Universal 24 fiber Male (pinned)

2. Performance MPO (rear)

- M = Multimode Elite
- S = Singlemode Standard
- T = Singlemode Elite

3. Qty of connectors (front)

- 08 = 8 x connectors
- 12 = 12 x connectors

4. Connector type front

- 10 = LC
- 11 = LC APC

5. Polarity type

- AS = A straight (12f)
- AF = A flipped (12f)
- B1 = B straight (8f/12f)
- B2 = B flipped (8f/12f)
- NS = N straight (8f/12f)
- NF = N flipped (8f/12f)

6. Fiber Type

- A = Singlemode G657A1
- N = Singlemode G657A2
- 3 = Multimode OM3
- 4 = Multimode OM4

Design Considerations:

PPC modules use a KeyUp/KeyDown MPO adapter as standard on all MPO-LC transition modules.

PPC recommends that UHD Transition Modules are connected with Male MPO backbone trunks (Polarity Type B) for a safer and simpler upgrade to 40G or 100G data rates.

Please contact your local representative for more information

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