

## CO-D40EV

### A standalone 40 Channel DWDM MDU

#### Key benefits:

- Extremely high port density
- Compatible with any ITU compliant DWDM transmission equipment
- 40 bidirectional ITU Channels in C-band
- Monitor ports
- Can be mounted in both 19 and 23 inch racks
- Built in fiber management
- Low cost per channel
- Extended operating temperature

The CO-D40EV is part of Transmode's TG-Series platform of passive optical filters. It is a fully passive 40 channel DWDM Mux/Demux module that fits into 1RU.

CO-D40EV works on dual fiber, allowing up to 40 bidirectional DWDM channels over one fiber pair.

CO-D40EV is compatible with any ITU compliant DWDM transmission equipment. Each channel is 100GHz spaced between 195.80 and 191.90 THz.

Monitor ports are available on both incoming and outgoing line signal, which gives the flexibility to troubleshoot already commissioned links without affecting the traffic.

The CO-D40EV has extended operating temperature range. This means it can be placed in locations without temperature control, i.e. street cabinets or other non controlled locations.



#### Applications

CO-D40EV can effectively be used in fiber exhaust and SAN (Storage Area Networks) applications as a compact and price competitive solution for combining new services as SDH, Ethernet or SAN, on a fiber pair.

The CO-D40EV is fully compatible and interoperable with Transmode TM-Series and TS-Series and is thereby providing network operators with a simple upgrade path to fully active WDM solutions.

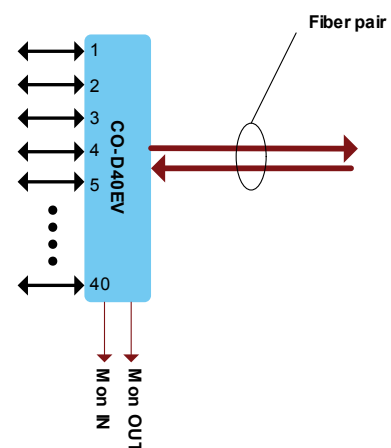


Fig 1. 40 channel DWDM Mux/Demux

#### Technical specifications:

<b>Max Insertion loss</b>	6dB (Worst case for EOL and complete temperature range) 4dB (BOL in room temperature)
<b>Link loss</b>	12dB (Worst case for EOL and complete temperature range) 8dB (BOL in room temperature)
<b>Dimensions</b>	Height: 44.45mm (1.75in) Depth: 240mm (9.5in) Width: 435mm (17.1in)
<b>Operating temperature</b>	-5 to 65°C (23 to 149°F)
<b>Connector type</b>	LC

### Product - wavelength mapping

Below tables outlines parts of the TG-Series' range of DWDM and CWDM optical filters and their associated wavelengths.

DWDM (40 Channels)																																										
Wavelengths	1562.23	1561.42	1560.61	1559.79	1558.98	1558.17	1557.36	1556.55	1555.75	1554.94	1554.13	1553.33	1552.52	1551.72	1550.92	1550.12	1549.32	1548.51	1547.72	1546.92	1546.12	1545.32	1544.53	1543.73	1542.94	1542.14	1541.35	1540.56	1539.77	1538.98	1538.19	1537.40	1536.61	1535.82	1535.04	1534.25	1533.47	1532.68	1531.90	1531.12	1310	
Frequency	191.9	192.0	192.1	192.2	192.3	192.4	192.5	192.6	192.7	192.8	192.9	193.0	193.1	193.2	193.3	193.4	193.5	193.6	193.7	193.8	193.9	194.0	194.1	194.2	194.3	194.4	194.5	194.6	194.7	194.8	194.9	195.0	195.1	195.2	195.3	195.4	195.5	195.6	195.7	195.8	1531.12	
DWDM Filters																																										
OADM: CO-D1CH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
OADM: CO-D4CH	4 Ch				4 Ch				4 Ch				4 Ch				4 Ch				4 Ch				4 Ch				4 Ch													
BSU: CO-BSU	Use upgrade port 1								Use upgrade port 2								Use upgrade port 3								Use upgrade port 4								Use upgrade port 5									
MDU: CO-D951-958	Use upgrade port 1																8 Ch																									
MDU: CO-D943-950	Use upgrade port 1																8 Ch								Use upgrade port 1																	
MDU: CO-D935-942	Use upgrade port 1																8 Ch								Use upgrade port 1																	
MDU: CO-D927-934	Use upgrade port 1				8 Ch				Use upgrade port 1																																	
MDU: CO-D919-926	8 Ch				Use upgrade port 1																																					
MDU: CO-D40EV	40 Ch																																									
MDU: CO-D40EV-E	40 Ch																																									

Support  
Support via upgrade port

CWDM (16 Channels)																
Wavelengths	1611	1591	1491	1471	1571	1551	1531	1511	1451	1431	1371	1351	1331	1311	1291	1271
CWDM Filters																
OADM: CO-11/CO-12	1 Ch	1 Ch	1 Ch	1 Ch	1 Ch	1 Ch	1 Ch	1 Ch	1 Ch	1 Ch	1 Ch	1 Ch	1 Ch	1 Ch	1 Ch	1 Ch
OADM: CO-13/CO-14	2 Ch		2 Ch		2 Ch		2 Ch		2 Ch		2 Ch		2 Ch		2 Ch	
MDU: CO-7					4 Ch											
MDU: CO-9	4 Ch															
MDU: CO-8	Use upgrade port 1				4 Ch				Use upgrade port 2							
MDU: CO-10	4 Ch				Use upgrade port 1				Use upgrade port 2							
MDU: CO-4	8 Ch								Use upgrade port 1							
MDU: CO-5									8 Ch							

Support  
Support via upgrade port  
Upgradeable to DWDM or CWDM via upgrade port 1

Single Fiber CWDM (8 Channels)								
Wavelengths	1290/1270	1330/1310	1410/1350	1450/1430	1490/1470	1530/1510	1570/1550	1610/1590
CWDM Filters								
OADM: CO-SF1 and CO-SF2x1	1 Ch	1 Ch	1 Ch	1 Ch	1 Ch	1 Ch	1 Ch	1 Ch
MDU: CO-SF-Ex/1270	4 Ch				Use upgrade port 1			
MDU: CO-SF-Tx/1470					4 Ch			

Support  
Support via upgrade port

The specifications and information within this document are subject to change without further notice. All statements, information and recommendations are believed to be accurate but are presented without warranty of any kind. Contact Transmode for more details.