

LGX Optical Modules for In-Service Fiber Monitoring

LGX optical modules allow out-of-band OTDR testing on active fibers by injecting a 1625 or 1650 nm test wavelength. The test signal is combined with live traffic using a wavelength division multiplexer (WDM), while a filter at the far end removes the OTDR signal. If the OTDR's range spans multiple fiber sections, a bypass module can extend the signal to adjacent spans.

With low insertion loss, a flat passband, and excellent reliability under varying environmental conditions, these modules are ideal for in-service fiber monitoring. They can be quickly installed, without tools, into any LGX-compatible shelf or fiber distribution panel.

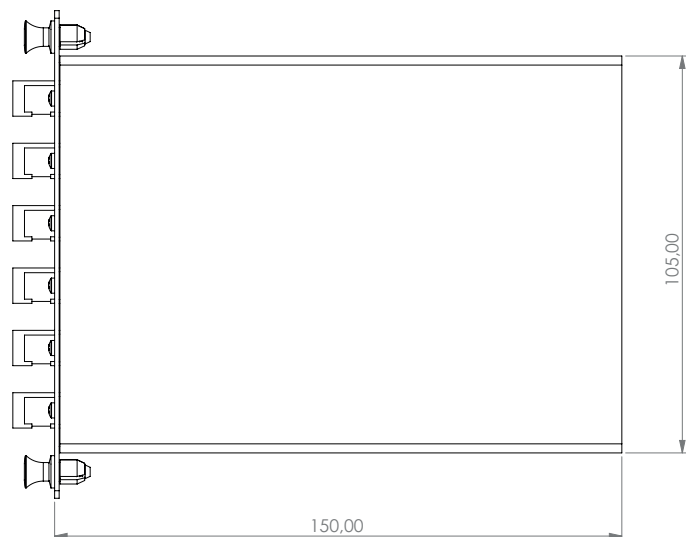
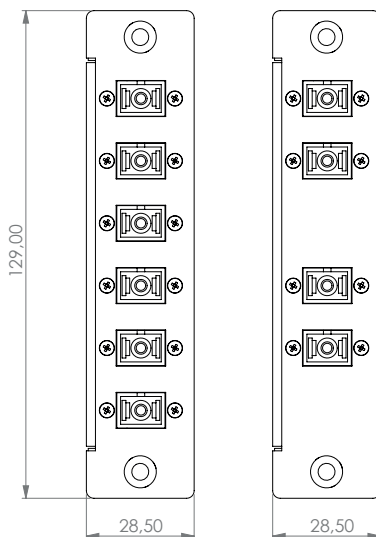
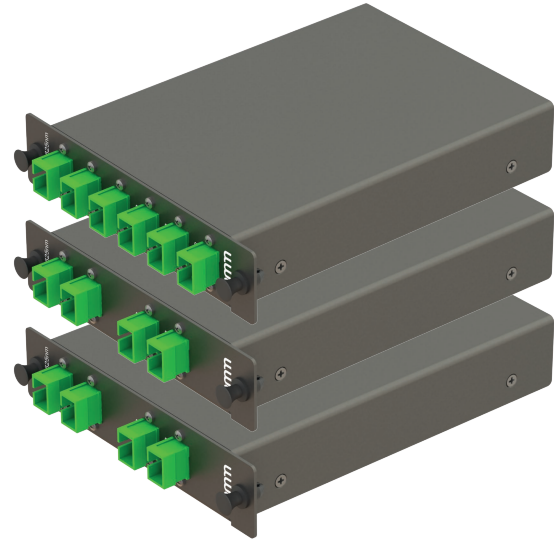
Features

- Supports in-service fiber monitoring with low insertion loss
- Wide and flat passband with high isolation at test wavelength
- High environmental and thermal stability
- Tool-free installation into LGX-compatible shelves or panels
- WDM modules for 1625 / 1650 nm
- Compatible with data traffic in band C and L
- Bypass modules for OTDR extension

Applications

- Remote fiber test systems
- Live fiber performance monitoring
- Fiber tapping detection

Dimensions



***Material : Aluminium / Painting : Black RAL 9005

Technical Specifications

Parameter	WDM	Bypass	Filter
Power handling	500 mW		
Connectors	SC/APC		
Components per box	2	1	2
Data Wavelength Range: 1290 – 1580 nm/OTDR: 1625 nm			
Insertion loss	1.1 dB	Side A: 1.5 dB	1.1 dB @1290 – 1570 nm
		Side B: 1.1 dB	2.1 dB @1580 nm
Isolation	15 dB	Side A: 50 dB @1625nm	35 dB @1625 nm
		Side B: 15 dB	
Data Wavelength Range: 1260 – 1620 nm/OTDR: 1650 nm			
Insertion loss	1.1 dB	Side A: 1.5 dB	1.1 dB
		Side B: 1.1 dB	
Isolation	15 dB	Side A: 55 dB @1650nm	40 dB @1650 nm
		Side B: 15 dB	

Module Component Configurations



Ordering Codes for Modules

Order Code	Item Codes and Descriptions
MTVC569-1	OMLGX2W162SA LGX BOX WITH TWO 1625NM WDM (SC/APC)
MTVC570-1	OMLGX1BP162SA LGX BOX WITH ONE 1625NM BYPASS (SC/APC)
MTVC571-1	OMLGX2F162SA LGX BOX WITH TWO 1625NM FILTERS (SC/APC)
MTVC569-2	OMLGX2W165SA LGX BOX WITH TWO 1650NM WDM (SC/APC)
MTVC570-2	OMLGX1BP165SA LGX BOX WITH ONE 1650NM BYPASS (SC/APC)
MTVC571-2	OMLGX2F165SA LGX BOX WITH TWO 1650NM FILTERS (SC/APC)

Ordering Codes for Panel

Order Code	Item Codes and Descriptions
MTVC568-1	OMLGX103 1RU, 3-slot LGX-compatible rack-mount shelf

