

LGX Optical Modules

In-service, out-of-band fiber monitoring



LGX optical modules enable testing fibers that are bearing traffic with an OTDR by inserting an out-of-band wavelength (1625 or 1650 nm).

The OTDR signal is added to the data signal by using a wavelength division multiplexer (WDM). At the other fiber extremity, a filter blocks the OTDR signal. When OTDR measurement range can cover more than one fiber span, a bypass can extend the OTDR signal to the adjacent span.

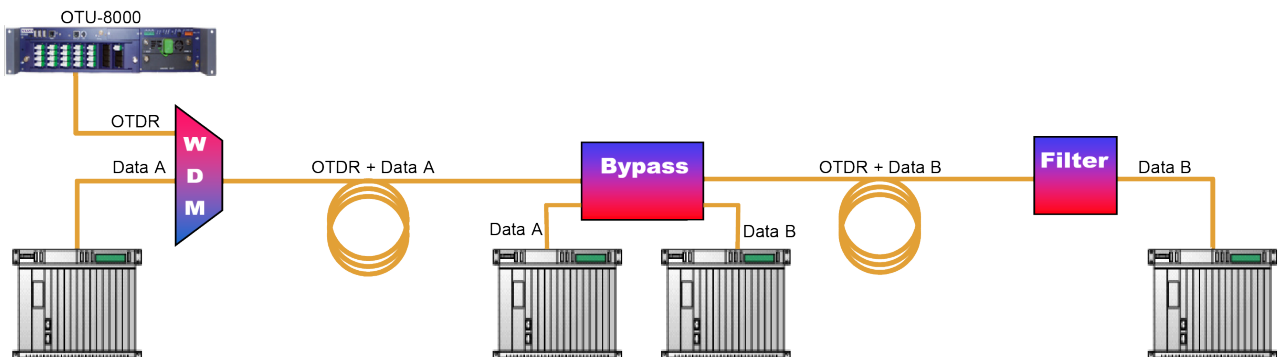
With low insertion loss, a flat passband and exceptional reliability and environmental stability, the modules are well suited for in-service fiber test applications. They install in minutes, without tools, in any LGX-compatible shelf or fiber-distribution panel.

Key Features

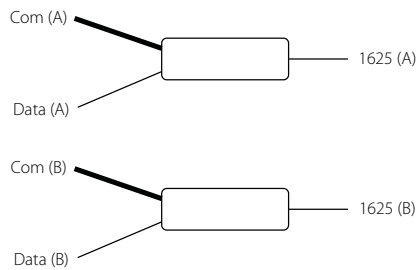
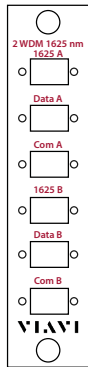
- Low insertion loss
- Wide and flat passband
- Exceptional reliability and environmental stability
- Excellent temperature stability
- Install in minutes

Applications

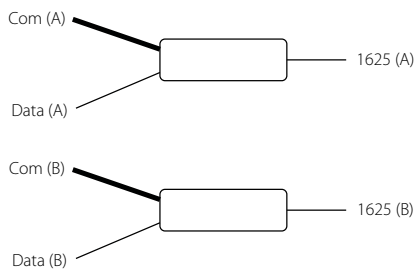
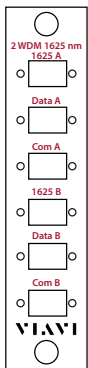
- Remote fiber test system
- In-service fiber monitoring



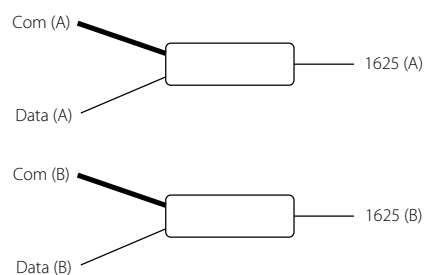
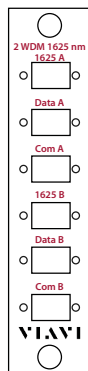
LGX Optical Modules



LGX box with two WDM (SC/APC)



LGX box with two WDM (SC/APC)



LGX box with two WDM (SC/APC)

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	1.1 dB	Side A: 1.5 dB	1.1 dB @1290 – 1570 nm
		Side B: 1.1 dB	
Isolation ²	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	1.1 dB	Side A: 1.5 dB	1.1 dB
		Side B: 1.1 dB	
Isolation ²	15 dB	Side A: 55 dB @1650 nm	40 dB @1650 nm
		Side B: 15 dB	

1. Insertion loss with connectors (maximum value, Com to Data).

2. Isolation (minimum value, Com to Data).

Ordering Information

For more information on this or other products and their availability, please contact your local VIAVI account manager or VIAVI directly at 1-800-498-VIAVI (5378) in North America and +800-5378-VIAVI worldwide or via e-mail at customer.service@VIAVI.com.

Description	Part Number
LGX box with two 1625 nm WDM (SC/APC)	E98LGX2W162SA
LGX box with one 1625 nm bypass (SC/APC)	E98LGX1BP162SA
LGX box with two 1625 nm filters (SC/APC)	E98LGX2F162SA
LGX box with two 1650 nm WDM (SC/APC)	E98LGX2W165SA
LGX box with one 1650 nm bypass (SC/APC)	E98LGX1BP165SA
LGX box with two 1650 nm filters (SC/APC)	E98LGX2F165SA
1RU, 3-slot LGX-compatible rack-mount shelf	E98RKLGX103
2RU, 6-slot LGX-compatible rack-mount shelf	E98RKLGX206
4RU, 12-slot LGX-compatible rack-mount shelf	E98RKLGX412



Contact Us **+1 844 GO VIAVI**
(+1 844 468 4284)

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visit viavisolutions.com/contacts.

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