



# 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.

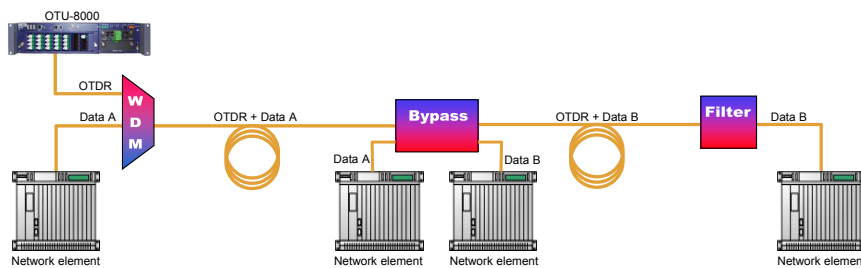
With low insertion loss, a flat passband and exceptional reliability and environmental stability, the modules are well suited for in-service fiber test applications. They install in minutes, without tools, in any LGX-compatible shelf or fiber-distribution panel.

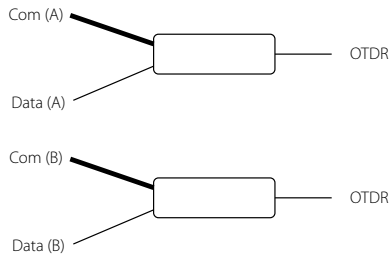
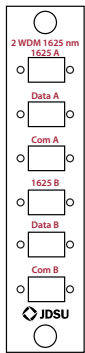
## Key Features

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

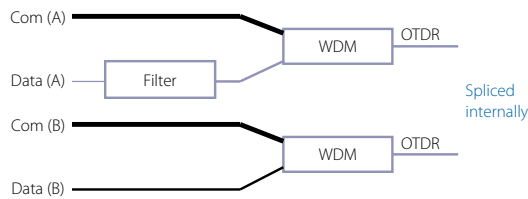
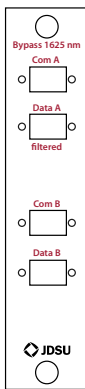
## Applications

- Remote fiber test system
- In-service fiber monitoring

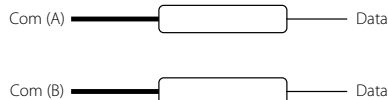
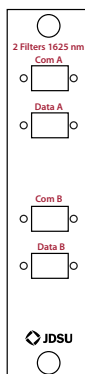




LGX box with two WDM (SC/APC)



LGX box with one bypass (SC/APC)



LGX box with two filters (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 <sup>1</sup>	1.1 dB	Side A: 1.5 dB	1.1 dB @1290–1570 nm
		Side B: 1.1 dB	
Isolation <sup>2</sup>	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 <sup>1</sup>	1.1 dB	Side A: 1.5 dB	1.1 dB
		Side B: 1.1 dB	
Isolation <sup>2</sup>	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 JDSU account manager or JDSU directly at 1-800-498-JDSU (5378) in North America and +800-5378-JDSU worldwide or via e-mail at [customer.service@jdsu.com](mailto:customer.service@jdsu.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



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