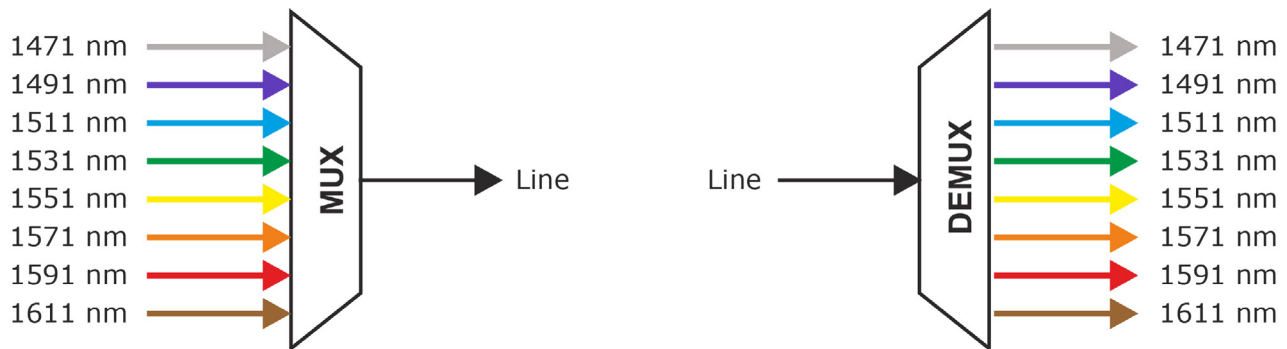


### WDM Modules (CWDMs and DWDMs)

ARIA's Optical Fiber WDM Modules carry multiple wavelengths across the same fiber so CATV MSOs can separate content and push it onto separate wavelengths. The filtered traffic can then be carried over the same fiber and dropped off at different coaxial termination points within the same node. This effectively splits the node sizes by creating different delivery points but does not physically alter the HFC configuration. With this technology, the transmission distance does not matter and one does not have to optimize for a specific distance. The transmitter technology multiplexes the signals onto the existing fiber and makes sure it can be demultiplexed at the end point: while technically still part of the node, that end point becomes, in effect, a smaller node.

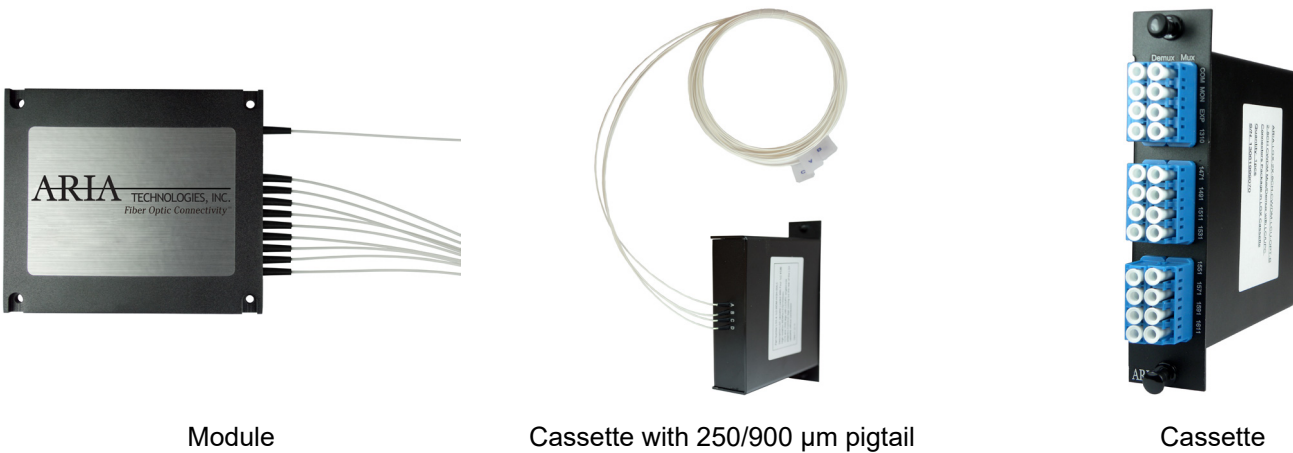
Low loss and high isolation WDMs are available in various form factors. WDM cassettes can be supplied with adapters (bulkheads) only, with pigtailed leads, or a combination of both. WDMs are 100% tested for insertion and return loss and meet Telcordia GR1209 and GR1221 specifications making them suitable for any PON application. The wavelengths accommodated range from 1310nm to 1625nm.

ARIA Optical Fiber WDM Cassettes are designed to mount in wallmount enclosures, rackmount enclosures, or directly into a rack or cabinet. Cassettes fit into ARIA Tri-Panel, ARIA 1RU, 2RU, and 4RU RDR Series, RDP Series, as well as LGX type 5" and 7" height enclosures.



1x8 Mux/Demux WDM Function

### Available Form Factors



Module

Cassette with 250/900 μm pigtail

Cassette

### WDM Modules (CWDMs and DWDMs)

#### Example WDM: 16 Channel LGX DWDM

#### Features

- Low Insertion Loss
- High Isolation
- Low PDL
- LGX Footprint
- Wide Operating Wavelength
- Wide Operating Temperature
- High Reliability and Stability

#### Applications

- DWDM System
- PON Networks
- CATV Links



#### Specifications

Parameter	Value	
<b>Channel Spacing (GHz)</b>	100	
<b>Center Wavelength (C25-C40) (nm)</b>	1557.36, 1556.56, 1555.75, 1554.94, 1554.13, 1553.33, 1552.52, 1551.72, 1550.92, 1550.12, 1549.32, 1548.52, 1547.72, 1546.92, 1546.12, 1545.32	
<b>Channel Pass Band @-0.5 dB (nm)</b>	0.22	
<b>IL (dB)</b>	≤4.7	
<b>2% Test TX &amp; RX IL (dB)</b>	≤23 RX & ≤27 TX	
<b>Isolation (dB)</b>	<b>Adjacent Channel</b>	≥30
	<b>Non-Adjacent Channel</b>	≥40
	<b>EXP Channel</b>	≥12
<b>Ripple (dB)</b>	≤0.4	
<b>PDL (dB)</b>	≤0.2	
<b>PMD (ps)</b>	≤0.1	
<b>RL (dB)</b>	≥45	
<b>Directivity (dB)</b>	≥50	
<b>Maximum Optical Power (mW)</b>	500	
<b>Operating Temperature (°C)</b>	-5~75	
<b>Storage Temperature (°C)</b>	-40~85	
<b>Package Dimensions (mm)</b>	129x29x100	
<b>Connector Type</b>	LC/APC	

### WDM Modules (CWDMs and DWDMs) Example WDM: 16 Channel LGX DWDM

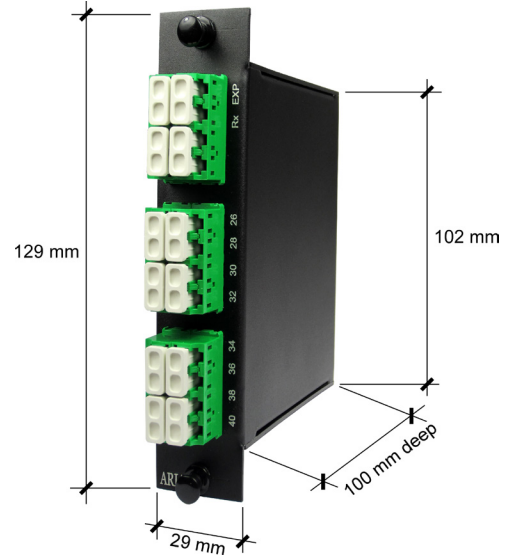
Part Number: LGX-16CH-25/40-DWDM-LCA

#### Description

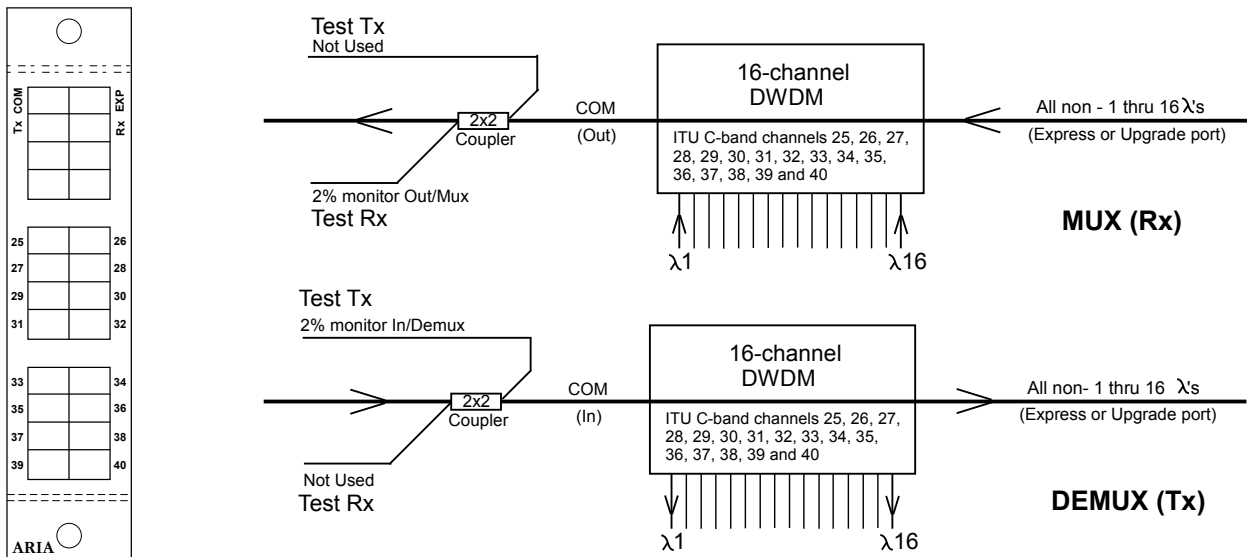
- 16 Channel DWDM
- ITU C-band channels 25-40
- Terminated with LC/APC Connectors
- Loaded into an LGX Cassette

#### Custom Availability

- Wavelengths
- Adapters
- Connectors
- Enclosures
- Port Configuration



#### Port and Structure Diagram



#### Compliance

- Telcordia GR-1209-CORE-2001
- ITU-T G.694.1
- Telcordia GR-1221-CORE-1999
- RoHS

