

## Product Specification

CWDM Solutions

Dual Fiber 18CH CWDM

Mux Demux with Monitor Port

LC/UPC 1U 19" Rack Mount



## Overview

aTrian CWDM Mux/Demux is designed to increase the transmission capacity without replacing any infrastructure. It supports data rates from 100 Mbps up to 10 Gbps per channel. aTrian CWDM Mux/Demux covers 18 channels from 1270 nm to 1610 nm in 20 nm increments. Monitor port can be used to attach an Optical Spectrum Analyzer (OSA) a precision instrument designed to measure and display the distribution of power of an optical source over a specified wavelength span.

CWDM solutions can be easily deployed in any kind of industry as Telco, Utility and Mining companies.

## Key Features

- **Wavelengths:** 18 channels 1270-1610 nm
- **Transmission Capacity:** 180 Gbps (18 Ch x 10 Gbps)
- **Insertion Loss:**  $\leq 5.5$  dB
- **Return Loss:**  $\geq 45$ dB
- **Technology:** TFF (Thin Film Filter)

## Regulatory Compliance

aTrian Communication Technologies switches complies with ITU-T G.694.2 standard.

## Technical Specifications

General Parameters	Symbol	Min.	Typical	Max.	Unit
Storage Temperature	T <sub>s</sub>	-40		+85	°C
Operating Temperature	T <sub>o</sub>	-40		+85	°C
Dimension (H×W×D)	D		44 x 482 w/ears x 230		mm

Fiber Type	F <sub>T</sub>	G.657 A1			
Working Wavelength	W <sub>W</sub>	1270	-	1610	nm
Wavelength Accuracy	W <sub>A</sub>	-0.5		0.5	nm
Channel Spacing	C <sub>S</sub>		20		nm
Channel Passband (@ -0.5dB bandwidth)	C <sub>P</sub>	-6.5		+6.5	nm
Insertion Loss (Passband)	IL <sub>P</sub>			5.5	dB
Insertion Loss (Monitor)	IL <sub>M</sub>			24.5	dB
Channel Isolation (Adjacent)	CI <sub>A</sub>	30			dB
Channel Isolation (Non-Adjacent)	CI <sub>NA</sub>	40			dB
Passband Ripple	P <sub>R</sub>			0.3	dB
Return Loss	RL			45	dB
Directivity	D	50			dB
Polarization Mode Dispersion	PMD			0.1	ps
Polarization Dependent Loss	PDL			0.3	dB
Power Handling	P <sub>H</sub>			300	mW
Technology	TFF (Thin Film Filter)				

## Ordering Information

Part Number	Description
ATCWDM18DR-2761M-LCU-A	CWDM Mux Demux 18 Channels Dual Fiber 1270 nm ~1610 nm + Monitor Port 1U 19" Rack Mount

## Warranty

THREE years of limited warranty for products sold directly by aTrian Technologies, unless special agreements have been set. Warranty period start from the ship date and will be only valid for the original customer who bought the product. If you have purchased the product from a reseller you must contact him directly. RMA Form and full warranty details are available on our website.