

T-Series Optical DWDM Multiplexers

Introduction

The T-Series DWDM Multiplexers multiplex and demultiplex optical DWDM wavelengths using high quality filters. They fully support ITU G.694.1 and are the ideal way to add more capacity to an existing fiber network. By multiplexing up to 32 DWDM wavelengths, the capacity of the fiber will be increased significantly. The family has 32, 16 and 8 channel multiplexers as well as 4 and 1 channel OADMs allowing network operators to implement point-to-point, ring and meshed DWDM networks. The T-Series modules are completely passive and therefore do not require electrical power.

The modules are based on 19" and standard LGX building practice with 1U height. They offer a very easy installation and connection process. Industry practise wavelength nomination allows easy set-up and installation resulting in a true Plug and Play experience.

The T-series of DWDM Multiplexers:

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|------------------|----------------------------|---|
| • T-3832: | 32 channel DWDM Mux/Demux | 921~924, 926~929, 931~934, 936~939, 941~944, 946~949, 951~954 and 956~959 |
| • T-3809: | 8+1 channel DWDM Mux/Demux | 934, 935, 936, 937, 938, 939, 940, 941 + expansion port for 3808 |
| • T-3808: | 8 channel DWDM Mux/Demux | 925, 926, 927, 928, 929, 930, 931, 932 |
| • T-3804- OADM4: | 4 channel OADM | see channel groups from T-3832 |
| • T-3801-xxx: | 1 channel OADM | all wavelengths |

Applications

All optical communication systems, such as: - Gigabit Ethernet, SDH/SONET, ATM, ESCON, Fibre Channel, FTTx and CATV.

•Features & Benefit

- Multiplexing of up to 32 DWDM wavelengths
- Low insertion loss
- Compliant to ITU G.694.1
- LC/UPC connectors



Mechanical Specification T-3832 modules

Material: Aluminium
 Weight: 2.5 kg
 Dimensions: 19" x H43 x D192 mm
 19" and ETSI mountable

Mechanical Specification LGX modules

Material: Aluminium
 Weight: 1.0 kg
 Dimensions: W212 x H43 x D192 mm
 19" and ETSI mountable

Specifications Optical

Operating Wavelengths: 192.1 THz ~ 195.9 THz, 1530.33 nm ~ 1560.61 nm
 Connector Interface: LC/UPC
 Operating Temperature: 0° C to +55° C

Insertion Loss: 7.2 dB T-3832
 (link-loss for Mux/Demux pair) 5.5 dB T-3809
 4.5 dB T-3808

Insertion Loss T-3804-OADM4: Express: 1.5 dB
 Drop: 3.6 dB
 Add: 4.5 dB

Insertion Loss T-3801-xxx: Express: 1.2 dB
 Drop: 1.2 dB
 Add: 1.2 dB

Isolation: >30 dB

Front panel layout and wiring diagram:

<p>T-3832</p>	
<p>T-3809</p>	
<p>T-3808</p>	
<p>T-3804-OADM4</p>	
<p>T-3801-xxxx</p>	

Ordering Information:

- T-3832: 32 channel DWDM Mux/Demux 921~924, 926~929, 931~934, 936~939, 941~944, 946~949, 951~954 and 956~959
- T-3809: 8+1 channel DWDM Mux/Demux 934, 935, 936, 937, 938, 939, 940, 941 + expansion port for 3808
- T-3808: 8 channel DWDM Mux/Demux 925, 926, 927, 928, 929, 930, 931, 932
- T-3804- OADM4-xxxxxyy 4 channel OADM xxx = start channel, yyy stop channel channel group from 3832
- T-3801-xxx 1 channel OADM xxx = channel wavelength

T-3001-19 19" mounting bracket for 2 modules of T-series or C-series
 T-3001-23 23" mounting bracket for 2 modules of T-series or C-series