T-30xx CWDM MUX/DEMUX SERIES
CWDM Multiplexers

PRODUCT FEATURES

- Multiplexing up to 16 channels on fiber pair
- Low insertion loss, 1U Low profile modular design
- Compliant to ITU G.694.2 and G.695
- Passive, no electric power required. (MTBF ca. 500 years)

OVERVIEW

Smartoptics T-30xx series are 4, 8 and 8+8 channel CWDM Mux/Demux units. T-3009 and T-3005 models have 1310nm expansion ports that allow either existing legacy 1310nm traffic or additional CWDM wavelength channels to be added. The T-3016 and T-3012 modules can be used on their own or to seamlessly expand an existing CWDM system when used together with T-3009 or T-3005 modules. All modules are protocol transparent.

ORDERING INFORMATION

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<th>Part Number</th>
<th>Description</th>
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<td></td>
<td>8 channel CWDM Mux/Demux (High band 1470 to 1610nm)</td>
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<tr>
<td>T-3009</td>
<td>8 ch. CWDM Mux/Demux, C47-C61, IL Link=3.2dB, 1310nm expansion port, LC</td>
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<tr>
<td>T-3008</td>
<td>8 ch. CWDM Mux/Demux, C47-C61, IL Link=2.8dB, LC</td>
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<td>4 channel CWDM Mux/Demux (High band 1510 to 1570nm)</td>
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<td>T-3005</td>
<td>4 ch. CWDM Mux/Demux, C51-C57, IL Link=2.4dB, 1310nm expansion port, LC</td>
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<tr>
<td>T-3004</td>
<td>4 ch. CWDM Mux/Demux, C51-C57, IL Link=2.0dB, LC</td>
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<td></td>
<td>4 and 8 channel CWDM Mux/Demux (Low band 1270-1430nm)</td>
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<tr>
<td>T-3016</td>
<td>8 ch. CWDM Mux/Demux, C29-C43, IL Link=2.8dB, LC</td>
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<tr>
<td>T-3012</td>
<td>4 ch. CWDM Mux/Demux, C27-C33, IL Link=2.0dB, LC</td>
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Note:
All modules are ½ size mounting units and require 19” mounting bracket sold separately.
## GENERAL SPECIFICATIONS

### Front View

### Function

<table>
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<tr>
<th>Specification</th>
<th>Front View</th>
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<tr>
<td><strong>8 channel CWDM Mux/Demux (High band 1470 to 1610nm)</strong></td>
<td><img src="image" alt="Front View" /></td>
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</table>
| T-3009 | 8 channel CWDM Mux/Demux, 1310nm expansion port C47, C49, C51, C53, C55, C57, C59, C61 + 1310 nm  
IL Link: <3.2 dB  
IL Link @ 1310 nm: <1.8 dB |
| T-3008 | 8 channel CWDM Mux/Demux  
C47, C49, C51, C53, C55, C57 & C61  
IL Link: <2.8 dB  
IL Link @ 1550 nm: <1.8 dB |
| **4 channel CWDM Mux/Demux (High band 1470 to 1610nm)** | ![Front View](image) |
| T-3005 | 4 channel CWDM Mux/Demux, 1310nm expansion port  
C51, C53, C55, C57 + 1310 nm  
IL Link: 2.5 dB  
IL Link @ 1550 nm: <1.8 dB  
IL Link @ 1310 nm: <2.2 dB |
| T-3004 | 4 channel CWDM Mux/Demux  
C51, C53, C55, C57  
IL Link: <2.0 dB  
IL Link @ 1550 nm: <1.8 dB |
| **4 and 8 channel CWDM Mux/Demux (Low band 1270-1430nm)** | ![Front View](image) |
| T-3016 | 8 channel port, CWDM Mux/Demux  
C29, C31, C33, C35, C37, C39, C41 & C43  
expansion Mux/Demux to T-3009  
IL Link: <2.8 dB  
IL Link: <4.0 dB combined with T-3009 |
| T-3012 | 4 channel port, CWDM Mux/Demux  
C27, C29, C31 & C33  
Expansion Mux/Demux to T-3005  
IL Link: <2.0 dB  
IL Link: <3.5 dB combined with T-3009 |

Subject to change without notice.  
For more information visit smartoptics.com.