



Sat-Light Series

Series 3000 CWDM Multiplexer & Demultiplexer

Features & Benefits



- Multiplexes up to 8 L-Band and IF channels
- Reduces cost of leasing or laying fiber
- Thin film filter technology provides reliable and cost-effective performance
- 1RU box for simple installation
- Protocol transparent

Product Description

Global Foxcom's Coarse Wavelength-Division Multiplexer (CWDM) can combine up to 8 fiber outputs from Global Foxcom's fiber optic transmitters into one single fiber. Each transmission is on a different optical wavelength. CWDM technology uses ITU standard 20 nm spacing between wavelengths from 1470nm to 1610nm. Each wavelength is transmitted on a separate single mode fiber optic cable and then multiplexed onto a single fiber. Global Foxcom's Coarse Wavelength Division De-multiplexer reverses the process, separating light into 8 separate fiber paths.

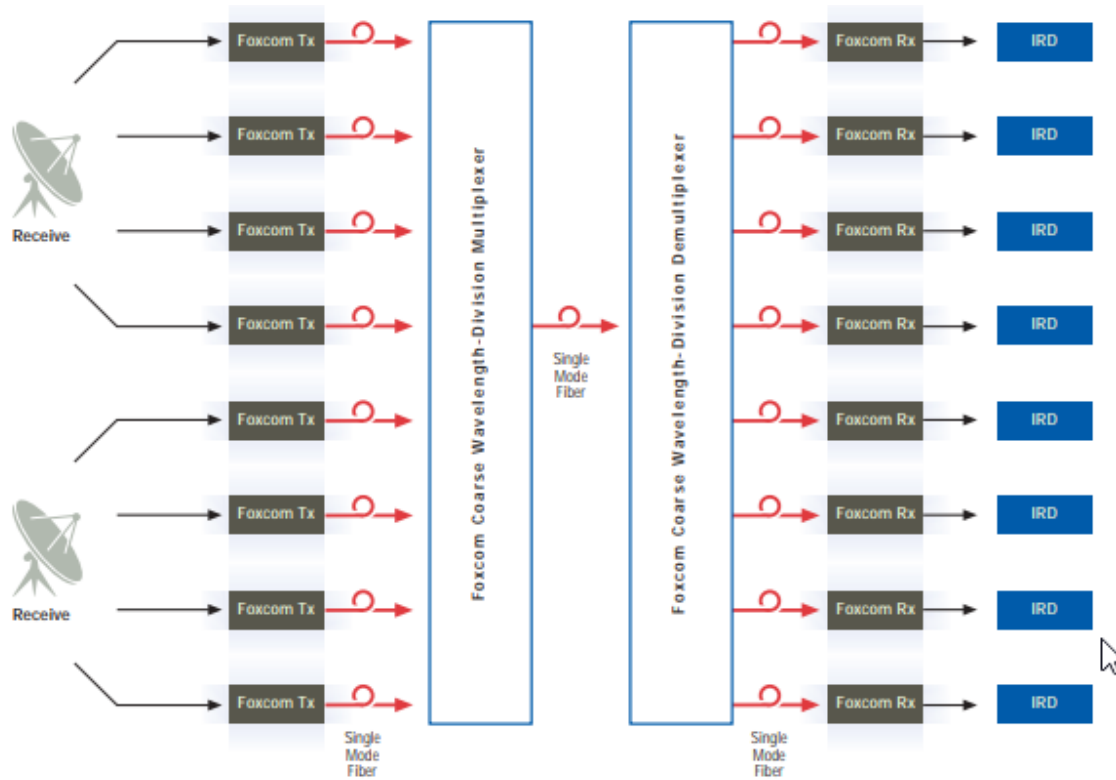
With Global Foxcom's CWDM solution, transmitting multiple L-Band and 70/140 IF Band signals over a single fiber becomes a simple and cost effective process. CWDM overcomes the need for installing new fiber or leasing cables. By using Global Foxcom's CWDM solution, transmission distances up to 50Km can be achieved.

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Specifications

Specification	MUX	DEMUX
Channel center wavelengths	1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611 nm	
Channel center wavelength separation	20 nm	
Channel bandwidth at channel insertion loss	>13nm	
Insertion Loss	<2.4dB	<2.7dB
Link loss with MUX / DEMUX combination	4dB	
Optical return loss	50dB	
Adjacent channel isolation	--	>30dB
Non-adjacent channel isolation	--	>50dB
Channel uniformity with MUX / DEMUX combination	<0.8dB	
Total input power	500mW max	
Polarization dependent loss	0.1dB	
Wavelength thermal stability	0.005 nm/°C	
Operating temperature	-10°C to + 70°C	
Storage temperature	-40°C to +85°C	
Dimensions (inches)	1U x 19 x 12"	

Typical Block Diagram Assignment



Ordering Information

Description	Model
Multiplexer	3000M
De-multiplexer	3000E

Other sizes are available upon request