



StingRay RF over Fibre

DWDM (Dense Wavelength Division Multiplexing),

Dual 4/8/16 way Optical Multiplexer/ Demultiplexer module

The StingRay DWDM dual 4/8/16 way Optical Multiplexer/Demultiplexer module is designed to provide compact fibre links, with up to 16 wavelengths on a single fibre cable, and transmission distance of up to 500 km with optical amplifiers. The module has up to 16 optical inputs and up to 16 optical outputs, is housed in its own 1U chassis & is designed to work with any of ETL's DWDM RF Over Fibre transmitters and high gain receivers.

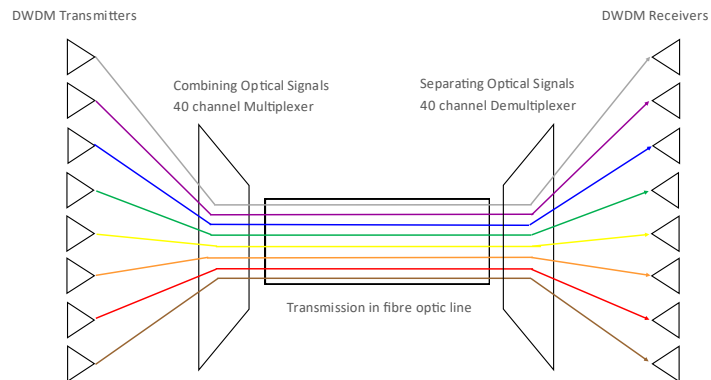
System Overview: The StingRay DWDM system comprises of transmit modules and a multiplexer module to combine up to 40 wavelengths on to a single fibre cable at the transmit end. A demultiplexer module and receive modules are then used at the receive end to split the separate wavelengths.

For more wavelengths and longer distances, please contact us.

RF Parameters (Multiplexer/Demultiplexer)			
Model Number	SRY-ODM-04-753-yy-zz	SRY-ODM-08-753-yy-zz	SRY-ODM-16-753-yy-zz
	Starting channel number is yy, optical connectors are zz.		
Capacity	Dual 4 way DWDM Multiplexer/Demultiplexer	Dual 8 way DWDM Multiplexer/Demultiplexer	Dual 16 way DWDM Multiplexer/Demultiplexer
Channel wavelength (nm)	ITU 100 GHz Grid Channels C20 to C60		
Central Wavelength Accuracy	±0.05 nm		
Minimal Channel Spacing	100 (0.8nm) GHz		
Monitor port	< 20 dB		
Insertion Loss	< 2.0 dB	< 3.0 dB	< 4.5 dB
Isolation	Adjacent	>25 dB	
	Non-adjacent	>35 dB	
Return Loss	>45 dB		
Power Consumption	0W		
Operating Temperature (°C)	-5°C to +70°C		
Storage Temperature (°C)	-40°C to +85°C		
Optical connectors	Optical connectors: FA - FC/APC or SA - SC/APC Single mode fibre, use angle polish connectors only		
Chassis Dimensions	1U high x 19 inch wide x 350mm deep—excluding mounting flanges & connectors		
Front Panel Colour	RAL9003 –White (Semi-Matte)		

Typical applications:

- Ku-band and Ka-band ready for HTS applications
- Long distance distribution of comms traffic across site with minimal loss - up to 500 km distances
- General satcoms— teleports, video head-ends, TVRO
- Compact solution for small quantity links such as tactical HQ



Chassis Features

Compact chassis dual 4/8/16 way multiplexer/
demultiplexer module housed in 19" 1U chassis



Multiplexer & Demultiplexer
to be used within
ETL's DWDM
System

Up to 16 wavelengths on a single fibre
cable. (Up to 40 available)

For applications where a different number of channels are required, please send your enquiry to info@etlsystems.com for more information.