



StingRay RF over Fibre DWDM, up to 90km distance 40 channel optical multiplexer and demultiplexer

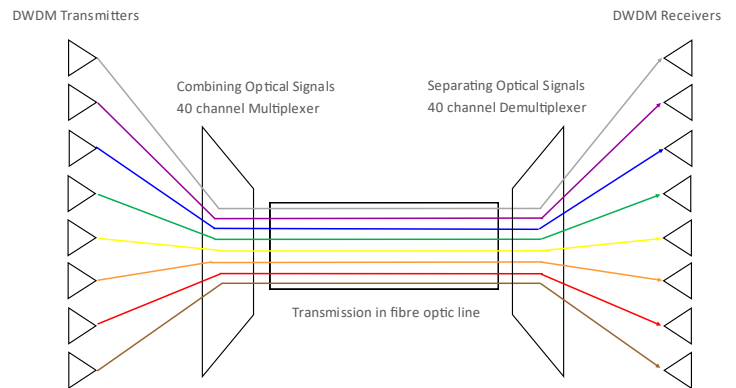
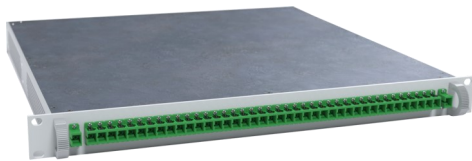
The StingRay DWDM series of RF over fibre units are designed to give compact fibre links of up to 90 km (up to 500km with Optical Amplifiers). The mux/de-mux has one optical input/output and forty optical inputs/outputs from ITU channel C20 to C59 on 100GHz spacing. This unit is designed to work with any of ETL's DWDM RF over fibre transmitters and high gain receivers.

Typical applications:

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

DWDM 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.**



System Features

Compact indoor & outdoor chassis options, which can be part populated

Remote control & monitoring via RJ45 Ethernet port with SNMP & web browser interface

Local control & monitoring via front panel push buttons & display

Resilience from dual redundant hot-swap power supplies, hot-swap fibre modules & fans

10MHz Inject from an external source chassis option



Indoor chassis showing hot-swap power supply modules , fibre modules and fans



DWDM System





Optical Parameters (TX and RX)		
Model Number	SRY-ODX-40-761-XX-XX	SRY-ODD-40-762-XX-XX
Chassis Type	Multiplexer	Demultiplexer
Capacity	One 40 channel DWDM multiplexer (note that 44 channel unit is also available)	
Operating Wavelength	ITU Channels C20 to C59	
Grid Spacing	100 GHz	
Insertion loss	6 dB including connectors	
Isolation	> 25 dB adjacent channel	
Return loss	> 40 dB	
Max optical power	TBA	
Optical Connectors	FC/APC (FA) (Single mode fibre) SC/APC (SA) (Use angle polish connectors only)	
Module Swap	Hot swap	
Power Consumption	0W	
MTBF	Passive module. MTBF TBC	
Control	None	
Operating Temperature	-5 to +65 °C	
Storage Temperature	-40 to +85 °C	
Location	Indoor use (Mount out of direct sunlight)	
Humidity	0 to 90% Relative Humidity	
Altitude	10,000 feet AMSL (Above Mean Sea Level)	
Dimensions	1U 19" rack enclosure, 350mm deep. Excluding mounting flanges and connectors.	
Weight	TBA	

Note-1: Typical parameters are guide figures and measured data may deviate from the quoted figures. ETL endeavours to exceed the quoted typical parameters where practically possible.
Note-2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage. For reliable long term operation do not exceed the parameters given in above.
Note-3: The spec table is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Please see separate datasheet for DWDM system options.