



# StingRay RF over Fibre DWDM System Overview

The StingRay series DWDM System is designed to provide compact fibre links for sites where multiple signals need to be transported, with multiple wavelengths on a single fibre cable, and a transmission distance of up to 500 km with optical amplifiers.

## DWDM System Overview

The StingRay DWDM System comprises of optical converters, multiplexers, demultiplexers, EDFA amplifiers, dispersion compensation and delay lines for diversity sites.

### Typical applications:

- Distribution of comms traffic across site with minimal loss.
- General satcoms - teleports, video headends, TVRO.
- Compact solution for small quantity links such as tactical HQ.
- Ku-band and Ka-band ready for HTS applications
- Distribution of comms traffic across geographical diverse site with minimal loss
- A resilient solution for satellite teleports with transmission distances up to 500 km
- Antenna diversity for HTS applications



**Dispersion compensation module**—passive unit. Used to eliminate effects of chromatic dispersion in long distance fibre runs. Important in high data rate applications and signal quality

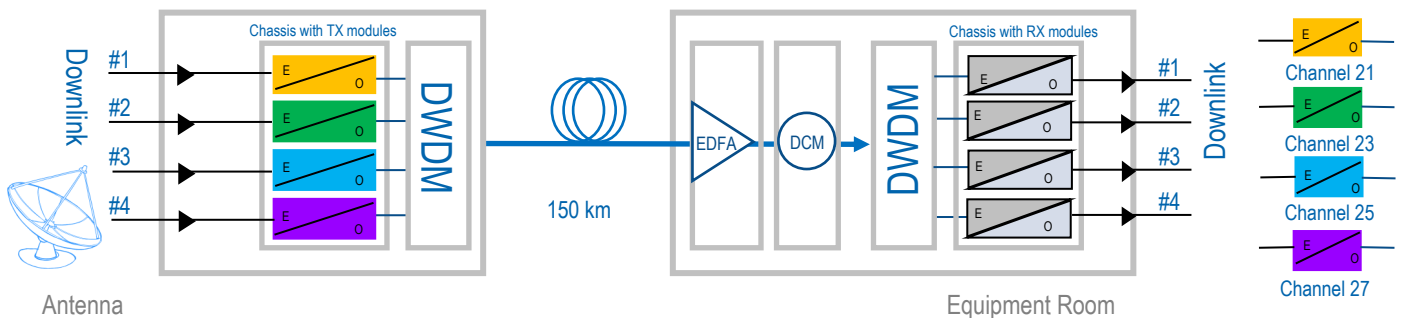
**Standard Fibre Chassis** for transmit and receive modules; **TX modules**—DWDM specific modules with cooled laser and higher output power

**DWDM Multiplexer & De-Multiplexer** passive unit. Features front panel monitor ports

**EDFA Optical Amp**—used to extend range beyond 100km. High and low gain versions available.

**Standard Fibre Chassis** for transmit and receive modules; **RX Modules**—higher gain receivers

### Typical fibre link application



RF OVER FIBRE

