MARINE FIBRE SYSTEMS.

## Satellite TVRO FibreLINK System

- Easy To Install
- Lower Cost Fibre Solution
- Distance Insensitive
- Lighter weight Cross site Cable
- Ideal for Marine Antenna systems
- Standard Optical Connections Used.

Marine TVRO System


## Description

The Global Invacom QUAD TVRO FibreLINK provides a cost effective solution for installation of an L Band TV distribution system both on land and in the maritime environment. It offers the benefit of very low transmission loss over large distances, avoiding the frequency attenuation of co-axial cable systems, as well as being simple to install, employing much lighter, smaller and lower cost fibre runs that have inherent radio interference protection.
The TVRO link accommodates the following signals:

### Four L-Band RX Paths

The system is supplied as two stand alone modules or alternatively can be provided in both suitable IP 65 Rated outdoor enclosure and 19” rack mount indoor unit.

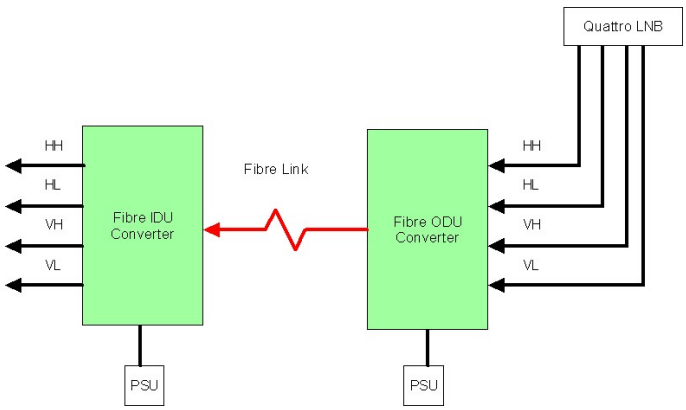
The four L Band signals from the satellite Quattro LNB are presented to the Fibre outdoor stacker unit via 4 ‘F’ connectors. The unit then converts the four L Band feeds to a single optical frequency before transmitting over a single mode fibre cable to the receiving unit in the control room.

The Receiving unit converts the optical input back to the four Quattro L Bands for use with standard tv satellite receivers.

Low cost optical rotary joints can also be employed to further save on cost of expensive RF rotating joints. There is also time and cost savings in the installation of a single fibre optic cable rather than the heavy co-axial cables.

If required Global Professional are also able to supply optical cables in pre made lengths suitable for use with the TVRO fibre system and also the Fibre VSAT systems, again for use in the marine environment.

| | |
|---|---|
| **Transmitter/Stacker** | |
| Power Connection | DC In Line Connection |
| RF Connections | 'F' Type, 4 per module |
| Optical Connections | FC/PC , 1 per module |
| Optical Interconnect Cable requirements | Single Mode |
| Total Optical Output Power | +8 dBm Combined 1530nm/1550nm |
| **Satellite Receive Path** | |
| RF I/P Frequency Range | 950-2150 MHz |
| Impedance | 75 ohm |
| Total Input Power | 97dBµV -11dBm @75ohm |
| Max Input Power per Transponder | 82dBµV -26.75dBm @ 75ohm |
| Input Return Loss | 10 dB |
| Nominal Gain | 0dB |
| Gain Variation over band | +/- 2.5dB |
| **Receiver/ De Stacker** | |
| Total Optical Input Power | Max –3dBm Min –14dBm |
| RF O/P Frequency Range | 950-2150 MHz |
| Total Output Power | 87 dBµV -21.75dBm @75ohm |
| Nominal Output power per Transponder | 72 dBµV -36.75dBm @ 75ohm |
| Isolation | 30dB |
| Noise Figure | 4 dB |
| **Electrical & Mechanical** | |
| Supply Voltage for Each module | +24V DC |
| Size excluding connectors Internal Unit | 165mm x 155mm x 30mm |
| Size excluding connectors External Unit | 250mm x 155mm x 35mm |
| Weight per module Indoor Unit | 560grams |
| Weight per module Outdoor Unit | 990grams |
| Operating Temperature | -40°C to +50°C |

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