AGILITY | INNOVATION | PERFORMANCE

XTERA R2.0 REPEATER

Xtera's innovative SDM repeater uses a titanium housing to contain a number of hybrid Raman-EDFA amplifiers. Pumps within the repeater are used to create a conventional Erbium Doped Fibre Amplifier (EDFA) inside the housing and a Raman amplifier in the cable leading up to the repeater.

The main features of the Xtera repeater are:

- ✓ High reliability using specially selected components and both pump & controller duplication.
- ✓ SDM design allowing for 1-16 pairs.
- ✓ Active command-response supervisory, allowing rapid access to repeater data such as power levels, pump currents, temperature and more.
- ✓ Marine grade titanium ensures extremely high resistance to corrosion.
- ✓ Ultra compact and light, easily handled on a ship and can pass through a plough without lifting the depressor arm.
- Specialised circuitry to minimise the power needed for the Raman pumps.



KEY PARAMETERS

Design Life	25 years
Bandwidth	Up to 70 nm
Reliability	<10 FIT per amp pair
Number of FP	1-16
Maximum Pout	+18.5dBm
Effective NF	≤3dB
Max voltage	10kV
Tensile Strength	600kN
Supervisory	Command Response
Max water depth	8,000 metres

www.xtera.com