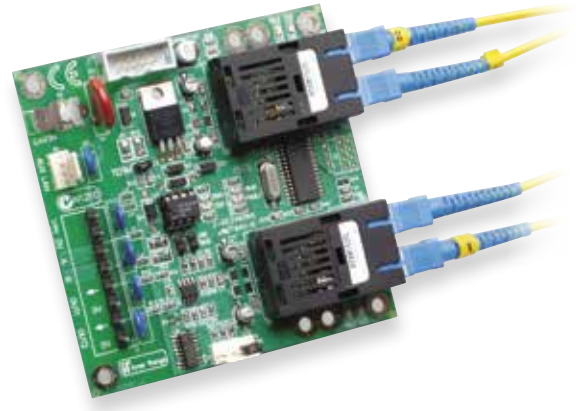The Inner Range Fibre Modem provides two separate, optically isolated ports to the Integriti, Inception or Concept system LAN. A set of Fibre Modems is ideal for applications where modules are separated in different buildings and/or are separated by large distances.

In terms of an Integriti, Inception or Concept system, Fibre Modem links boost maximum LAN distance while providing immunity to earth loops, induced electrical noise and propagation of pulses from lightning strikes by virtue of the optical isolation.

The modems have two fibre ports which enable sets of Fibre Modems to be arranged in 'branch' or 'loop' configurations. Each fibre port utilises a pair of fibres per link to provide full-duplex communication. Up to 5 Fibre Modems can be connected in series.
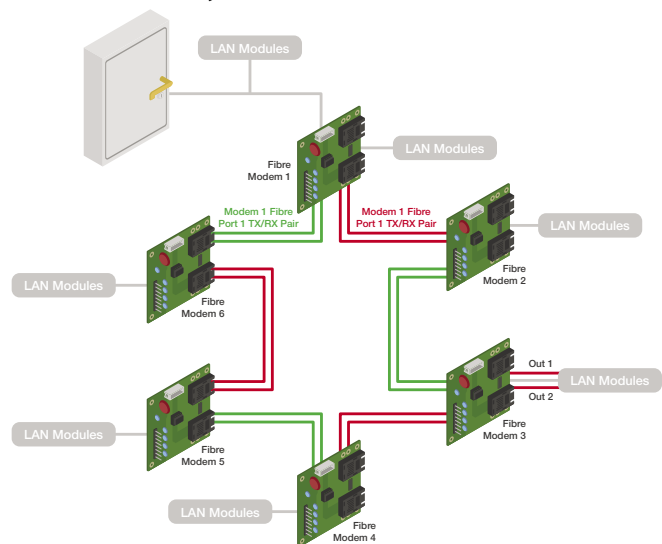
Both Single Mode and Multimode versions of the Fibre Modem are available.

Features

- Multimode Fibre Modems extend Controller LAN up to 3Km
- Single Mode Fibre Modems extend Controller LAN up to 13Km
- Electrical isolation from the remote LAN
- Fibre links immune to earth loops and induced noise
- Immune to propagation of electrical pulses due to lightning
- Supports loop and branch ("Y") configurations
- Redundant LAN path when Fibre Modems used in 'loop' configuration
- 'Loop Fault' and 'Branch Fault' auxiliary outputs

Connectivity

Specifications

Physical

PCB Dimensions:	96(L) x 96(W) (mm) Note: Fibre Connector heads protrude 15mm from PCB
Installation Environment:	0° – 50°C @ 15% to 85% Relative humidity (non-condensing)
Fibre Optic Connections:	Type ST. 62.5/125 820nm multimode cable (Multimode)
	Type SC. 9/125 1310nm single mode cable (Single Mode)

Electrical

Input Voltage to PCB:	11-14VDC (From LAN or separate battery-backed external power supply)
Operational Current:	Min.: 20mA (idle) Max.: 120mA

Optical

Tx Optical Power:	-12dBm (typical)
Rx Optical Power:	-24dBm (minimum for logic operation)
Max. Modem to Modem Optical Cable Distance (Multimode):	3km
Max. Modem to Modem Optical Cable Distance (Single Mode):	13km

Ordering Options

995081
Multimode Fibre Modem

995087
Single Mode Fibre Modem