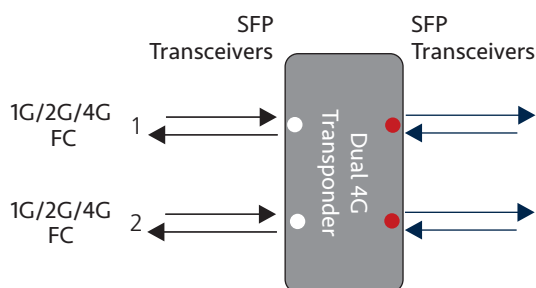
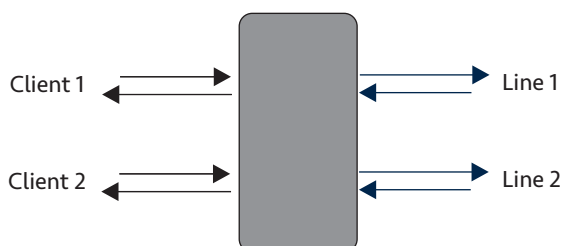


Dual 4G Fibre Channel Transponder 7400

The TS-1100 has now been upgraded to support high capacity SAN extension by the introduction of a new Transponder for 4G Fibre Channel traffic.



The Dual 4G Fibre Channel Transponder (7400/01) is intended for transport of native Fibre channel and FICON traffic. It covers all three Fibre channel formats as defined by FCIA, i.e. 1, 2 and 4 Gbit/s Fibre Channel. The 7400/01 automatically detects the bit rate and adjusts the 3R circuits accordingly. The module includes two parallel transponders that normally run independently. This means, for example, that one transponder may carry 1Gbit/s FICON while the other is carrying 4Gbit/s Fibre Channel.



Loop-back can be injected on both client and line interfaces to validate installation and commissioning of the unit, or to ease fault finding on client or line interfaces. The 7400/01 has two operational modes:

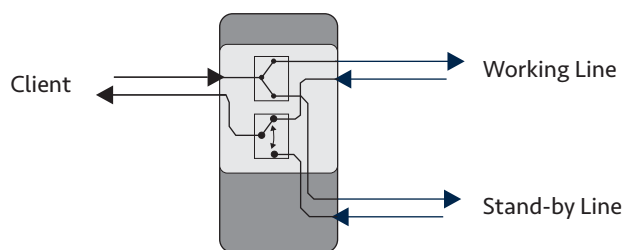
- Two independent 1G/2G/4G FC Transponder functions.
- One 1/2/4 Gb/s Transponder function with line protection

Line Protection Mode is enabled by using both line ports on the unit for one of the Transponders functions.

The transmitted signal is electrically split to the two line ports. An electrical switch function is activated to enable selection of the received signal from one of the line ports. The protection functionality does not introduce any optical losses on the optical path since this functionality is performed within the unit.



Optical parameters from both client and line interfaces can be monitored to detect degradations, e.g. fiber network due to bad connectors, new splices etc. The 7400/01 unit can be combined with other Transponders, Aggregators and passive Mux/DeMux units and form a multi-service NE for SAN, IP and video applications.



Transponder with line protection mode

The TS-1100 can be managed using the Embedded Node Manager (ENM) and can be accessed via a Command Line Interface (CLI) or via a Graphical User Interface (GUI) via a standard web browser. No specific Transmode SW is required to access the ENM.

More complex networks can be managed using the Transmode TNM (Transmode Network Manager) solution. This is a client server based solution that can be installed on computers using Windows or Linux operating systems (i.e. PC work stations). The Transmode TNM gives total control of the network with alarm collection, performance management, configuration management, security management, software upgrade, graphical interface etc.

Technical Data

Module type	Parameter		Value	
	1/2/4G FC SM	1/2/4G FC MM	1/2/4G FC 40km	1/2/4G FC 70km
Connector type	LC	LC	LC	LC
Input fiber type	SM	MM	SM	SM
Interface type	~5km	~300m	~40km	~70km
Output wavelength (nm)	1260-1360	820-860	1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611 (G.694.2)	1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611 (G.694.2)
Output power	-8dBm	-9dBm	0dBm	0dBm
Receiver sensitivity at 10-12	-18dBm 4G FC -20dBm 1/2G FC	-15dBm 4G FC -18dBm 1/2G FC	-18dBm 4G FC -20dBm 1/2G FC	-26 1G/2G FC -24 4G FC
Overload	0dBm	0dBm	0dBm	-9dBm
Link budget Tx-Rx without System Margin	10dB 4G FC 12dB 1G/2G FC	10dB 4G FC 12dB 1G/2G FC	18dB 4G FC 20dB 1G/2G FC	26dB 1G/2G FC 24dB 4G FC

The specifications and information within this document are subject to change without further notice. All statements, information and recommendations are believed to be accurate but are presented without warranty of any kind.