

# 7400/01 Dual 4G Fibre Channel Transponder

## A SAN optimized Transponder

### Key benefits:

- Supports 1G, 2G and 4G Fiber Channel and FICON providing full flexibility
- Automatic detection of bitrates providing easy and fast installation
- Pluggable transceivers enable usage in CWDM as well as DWDM networks
- Low Power Design ensures low total cost of ownership

The 7400/01 Dual 4G Fibre Channel Transponder is a powerful part of Transmode's TS-Series platform enabling optimized and cost efficient transport networks based on CWDM/DWDM technology.



### Optimized for SAN applications

The Dual 4G Fibre Channel Transponder (7400/01) is intended for transport of native Fibre Channel and FICON traffic, making it ideal in SAN applications. The 7400/01 automatically detects the bit rate and adjusts the 3R circuits accordingly.

The unit includes two parallel transponders that normally run independently. This means, for example, that one transponder may carry 1Gbit/s FICON while the other one is carrying 4Gbit/s Fibre Channel. In this way the initial use of the 7400/01 can be for 1G or 2G Fibre Channel, and when higher capacity is required the same unit is already prepared for the transport of 4G services.

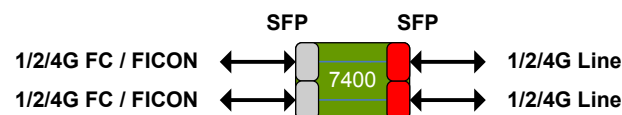


Fig 1. The 7400 supports two independent transponder functions

### Optimized for SAN applications

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 Fibre Channel 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 transponder functions.

The transmitted signal is electrically split to the two line ports. An electrical switch function is activated to enable a 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, muxponders and passive Mux/Demux units and form a multi-service node for SAN, IP and video applications.

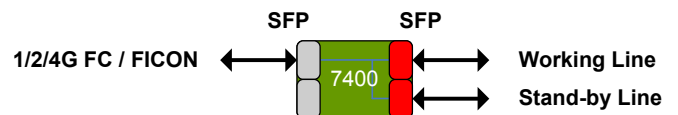


Fig 2. Transponder with line protection mode

### Embedded Management

The embedded management (EM) channels enable easy remote management via the line signal. There is therefore no need to provide access to the customer DCN network if the 7400 is placed at a customer site.

The 7400/01 Transponder can be managed using the Embedded Node Manager (ENM) and can be accessed via a Command Line Interface (CLI) or via a GUI via a standard web browser. No specific Transmode SW is required to access the ENM.

### Tailored Network Element option

The 7400/01 can be mounted in any of the TS-Series two chassis options;

- 1U TS-100 chassis
- 6U TS-1100 chassis

This enables a tailored setup depending on current and future capacity needs of the site.

## Low Power Design

A fully equipped 7400/01 consumes less than 12W. Low power consumption in combination with a small footprint reduces site costs and enables more capacity to be handled at sites with restrictions on power consumption, cooling and space.

## Technical specifications:

<b>Supported traffic formats</b>	1G/2G/4G Fibre Channel (and FICON)
<b>Protection</b>	Via two line ports set in 1+1 protection. Non-revertive switching <50ms
<b>Power consumption</b>	Max 12W, worst case (with all client ports active and using DWDM SPFs)
<b>Interfaces</b>	Client interfaces: SFP MM, SM @ 1310nm/1550nm versions covering ranges from 100m up to 15km. MultiRate 100Mb/s – 2,125Gb/s. Dedicated STM-1/OC-3 (S-1.1). Electrical SFP for Gigabit Ethernet. Line interfaces: SFP 4Gb/s 40km/70km CWDM (up to 16 channels) or 80km DWDM (up to 40 channels)

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. Contact Transmode for more details.

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