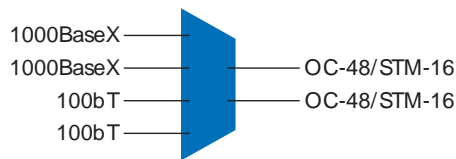


2-PORT GbE MUXPONDER

PRODUCT OVERVIEW

THE 2-PORT GbE MUXPONDER PROVIDES A DENSE, FLEXIBLE INTERFACE FOR GbE TRANSPORT AND SERVICE DELIVERY OVER SONET OR SDH NETWORKS. IDEALLY SUITED FOR DIVERSE BACKHAUL OF DUAL GbE CONNECTIONS FROM IP-DSLAM, OLT, WIMAX OR OTHER BROADBAND ACCESS DEVICES, THE SINGLE SLOT 2-PORT GbE MUXPONDER MAPS TWO GbE SIGNALS AT FULL RATE INTO A PROTECTED OC-48 OR STM-16 CONNECTION.



APPLICATIONS

IP-DSLAM, PON, WiMAX Backhaul

The 2-Port GbE Muxponder can be used to provide protected backhaul from new broadband access devices, such as an IP-DSLAM, PON OLT, or WiMAX Base stations. The Muxponder GbE client ports connect to the two optical GbE ports on the access device at any wavelength. The Muxponder maps the two GbE ports into an OC-48 or STM-16. The OC-48 or STM-16 is output on redundant line side ports that can be routed East and West on a UPSR or SNCP protected ring for backhaul to the aggregation site or central office.

Ethernet Private Line Service Delivery

The 2-Port GbE Muxponder provides delivery of wholesale and enterprise full bandwidth GbE Private Line services over a SONET or SDH network. The service interface can be GbE at any wavelength. A full suite of GbE alarms and performance monitoring provides service demarcation with measurement to Service Level Agreements (SLAs) and simplified billing. UPSR and SNCP protection at sub 50ms provides premium-quality service.

KEY FEATURES

- 2 x 1000BaseX client side ports
- 2 OC-48/STM 16 line side ports – optional protection
- All ports pluggable SFP transceivers – 850nm, 1310nm, 1550nm, CWDM and DWDM
- Full rate GbE transport of client signals into OC-48/STM-16 using GFP
- UPSR and SNCP line protection
- Performance monitoring on SONET/SDH and GbE client and line signals – 15mins and 24hours
- Client and line side loopback
- 2x100BaseT port for in-band management communication



2-PORT GbE MUXPONDER

Router and Switch connectivity

The 2-Port GbE Muxponder can be used in private or carrier networks for the transport of GbE signals between Ethernet switches and routers. GbE signals are mapped into OC-48/STM-16 line ports to enable transport over existing or new SONET/SDH networks. GbE transport is at full bandwidth for maximum performance. In addition to the GbE client signal, two 100BT client signals are also provided on the muxponder and mapped into the same protected line ports for management connectivity. Working and protection line paths can be routed independently across the network.

TECHNICAL INFORMATION

Module Size	Single Slot
Supported Chassis	Netstender 1030, 2060, BTI 7030, 7060
Bandwidth Management	Mapping of Client GbE and 100BT into OC-48 or SDH using GFP-F and Virtual Concatenation
Protection	Client side UPSR/SNCP on per STS-1/VC-4 basis
Loopback	GbE client ports: Facility and terminal loopback OC-48/STM-16 line ports: Facility loopback
GbE Client Side Optical Interface:	
<i>Type</i>	SFP
<i>Connector Type</i>	LC
<i>Output wavelength</i>	850nm, 1310nm, 1550nm, CWDM, DWDM
<i>Output power, Rx sensitivity</i>	SFP Specific
OC-48/STM-16 Line Side Optical Interface:	
<i>Type</i>	SFP
<i>Connector Type</i>	LC
<i>Output wavelength</i>	850nm, 1310nm, 1550nm, CWDM, DWDM
<i>Output power, Rx sensitivity</i>	SFP Specific
Performance Monitoring:	
<i>GbE Client</i>	Current and historical (15mins, 24hours) Optical: SFP Laser Bias Current, Optical Power Rx/Tx, SFP Supply Voltage & Temperature Layer 1: CV, ES, SES Layer 2: Tx & Rx Frames, Frame Check Errors, Discarded Frames
<i>OC-48, STM-16 Line</i>	Optical: SFP Laser Bias Current, Optical Power Rx/Tx, SFP Supply Voltage & Temperature OC-48 section PMs: CV-S, ES-S, SES-S, SEFS-S SONET Path: CV-P, ES-P, SES-P, UAS-P, FC-P STM-16 section PMs: RS-EB, RS-BBE, RS-ES, RS-SES, RS-CFS SDH Path : HP-EB, HP-BBE, HP-ES, HP-SES, HP-UAS