DUAL 2.5G MULTIPROTOCOl TRANSPONDERS

PRODUCT OVERVIEW

THE DUAL 2.5G WAVELENGTH MULTIPROTOCOL TRANSPONDER PORTFOLIO OFFERS A VARIETY OF FULL FEATURED TRANSPONDERS FOR MULTI-TRAFFIC PROTOCOLS—100MB/S TO 2.5GB/S. SUPPORTED IN BOTH THE NESTENDER™ AND BTI 7000 PRODUCT SERIES.

APPLICATIONS

WAVELENGTH TRANSLATION (COLOR MANAGEMENT)
BTI’s multiprotocol transponders can be used to convert supported signals to CWDM and DWDM wavelengths and can accept two bidirectional client interfaces from a router, SONET/SDH ADM, or any other device at 850nm, 1310nm, or 1550nm wavelengths. The signals are converted to CWDM or DWDM wavelengths and output to a wide range of mux/demux and OADM modules.

REACH EXTENSION AND REGENERATION
BTI’s multiprotocol transponders can be used to extend the length of optical signals and can be either collocated with terminal equipment or deployed at intermediate line sites. When a multiprotocol transponder is collocated with terminal equipment it accepts limited-reach 850nm or 1310nm signals and converts them to extended-reach 1550nm or DWDM wavelengths. When deployed at an intermediate line site, the multiprotocol transponder can accept and regenerate two bidirectional 1550nm or DWDM wavelengths.

KEY FEATURES

• Support for OC-3/ 12/ 48, OC-48 with FEC, STM-1/ 4/ 16, GbE, 100FX, FC 1/ 2, 1G, 2G FC, ESCON, FDDI, SDI video (270 and 540 Mbps)
• Pluggable SFP transceivers on client and line side
• 850nm, 1310nm, 1550nm, CWDM, DWDM support
• 4 optical ports for support of 2 bidirectional or 4 unidirectional signal paths
• 2R (translation), 3R (regeneration), 4R (reframe) options
• Optional optical protection switching sub 50ms
• Client and line side loopback
• DWDM interface to any of 36 ITU grid wavelengths
• CWDM interface to all 16 ITU grid wavelengths
• Integrated Performance monitoring: optical, OC-3/ 12/ 48, STM-1/ 4/ 16, GbE; 15-minute and 24-hour
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WAVELENGTH PROTECTION

The multiprotocol transponder with protection can be used to provide sub-50ms optical protection of any supported optical signal. A single client-side optical signal at 850nm, 1310nm, or 1550nm is input from the terminal equipment and output on two redundant line ports at any wavelength. The working and protect signals can be combined with other optical signals onto CWDM or DWDM lines and terminated at the far end by another multiprotocol transponder with protection.

STM-16, OC-48, GbE PRIVATE LINE SERVICES

The multiprotocol transponders can be used to provide demarcation of wholesale or enterprise OC-48 and GbE Private Line services. The client service interface can be at 850nm, 1310nm, or 1550nm. Client and line side loopback provides the ability to isolate the service to the customer boundary during provisioning and fault isolation. Extensive performance monitoring enables adherence to service level agreements (SLAs).

TECHNICAL INFORMATION

Module Size
Single Slot

Supported Chassis
Netstender™ 1030, 2060; BTI 7000 Series 7030, 7060

Client and Line Side Optical Interface
Type:
SFP

Protocol:
OC-3/12/48, OC-48 with FEC, STM-1/4/16, GbE, 100FX, 1G, 2G FC 1/2, ESCON, FDDI, SDI video (270 and 540 Mbps)

Connector Type:
LC

Output wavelength:
850nm, 1310nm, 1550nm, CWDM, DWDM

Output power:
SFP specific

Receiver sensitivity:
SFP specific

Performance Monitoring
Client and line side, 15-minute, 24-hour

Physical Layer
SFP Optical Power Tx/Rx, Temperature, Supply Voltage, Laser Bias Current

GbE (WM)
CV, ES, SES

OC-3/12/48 (WM)
CVS, ESS, SEFS-S, SESS

STM-16 (WM)
RS-BBE, RS-EB, RS-ES, RS-OFS, RS-SES

Regeneration Options
2R translation, 3R regeneration, 4R reframe

Module Options
4-port 1G Wavelength Translator
4-port 1G Wavelength Regenerator
4-port 2.5G Wavelength Regenerator
4-port 2.5G Wavelength Manager