

RBNi GigaEdge 2320™

Compact, flexible xWDM Muxponder and Transponder for enhancing existing SONET/SDH transport networks at up to 2.488Gbit/s rates with new high-speed services such as GigE, SAN and Video.



KEY FEATURES

- ◆ Single platform supports a 4xANY xWDM Muxponder or up to 3xANY xWDM Transponders
- ◆ Muxponder stacking enables more low speed services per xWDM λ
- ◆ Cost-effective, pluggable SFP optics on client and aggregate ports with grey and xWDM options – which greatly simplifies sparing
- ◆ Scales easily from point-to-point to large ring networks using 6000 series filters for passive drops and optional GigaEdge 8200s or 2320 Transponders for regeneration
- ◆ All management and diagnostics remotely accessible via DCC
- ◆ Low power (50W) and wide temperature range (-5°C to +55°C)
- ◆ No fans or air filters - hence no scheduled maintenance required
- ◆ Deployable in CO, Air-conditioned OSP Cabinet, Underground Vault, Building Basement or Riser
- ◆ AC or DC power supply options

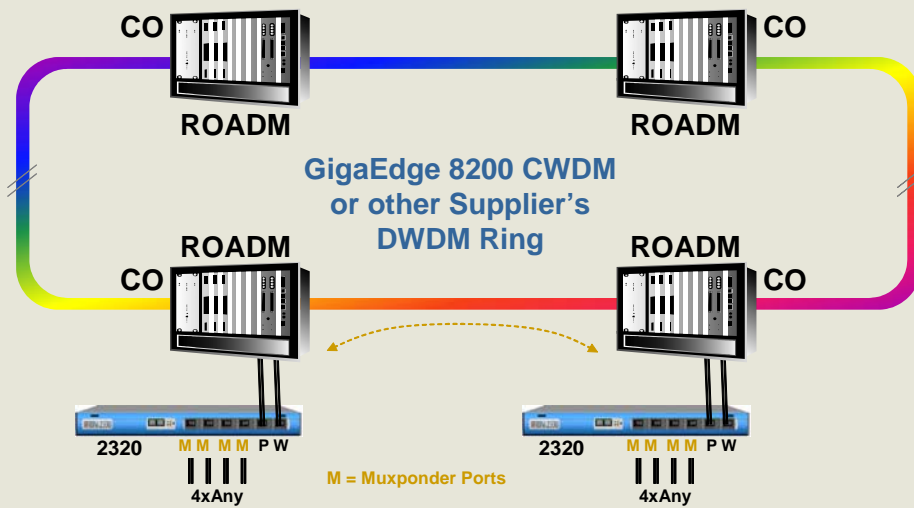
The RBNi GigaEdge 2320 is an integrated xWDM Muxponder and Transponder platform that multiplexes any mix of four SONET or SDH, Gigabit Ethernet, SAN and Video services onto a protected 2.488 Gbit/s aggregate (4xANY Muxponder) or hair-pins adjacent ports to provide 100 Mbit/s – 2.488 Gbit/s Transponders to support minimum latency (eg, for SAN applications) or 100% protocol transparency (eg, for legacy transport such as SONET/SDH where it is preferred that the section overheads not be terminated). A larger number of lower speed ports per Muxponder are possible by stacking other GigaEdge 2320 units via 622Mbit/s or 2.488Gbit/s tributary connections using low cost grey (1310nm) SFP optics.

The 2320 xWDM Muxponder + Transponder can terminate up to 5 Gbit/s of SONET/SDH plus high speed data capacity in one rack unit (eg, OC48 + GigE + Fiber Channel). As a 4xAny Muxponder, it is ideal as a port-expander for existing xWDM networks (such as a GigaEdge 8200 CWDM network) to improve their wavelength efficiency and extend their life. Coloured xWDM SFP optics and external 6000-series xWDM optical add/drop or terminal multiplexers are also available to implement new point-point, bus and ring xWDM networks.

The RBNi GigaEdge 2320 can be used in a wide range of configurations and applications:

- Standalone point to point as a 4xAny multi-protocol service aggregator and Optical Network Termination Unit (ONTU) - providing carrier to customer demarcation at the edge of the network with ITU/Telcordia standard performance monitoring for SLAs;
- Transponder plus 2xAny Muxponder where a carrier's existing OC-48/STM-16 network requires a new GigE, SAN or Video service overlay between two adjacent COs with no change in existing SONET/SDH management and there is no spare fiber remaining.

The use of SFP optics and a flexible, remotely configurable platform makes the 2320 the most versatile multi-service xWDM Muxponder + Transponder solution on the market. A carrier or enterprise customer no longer has to worry about purchasing the wrong mix of client interface cards or having to wait weeks to turn up a new service. Instead, they can install an appropriate SFP only when a new service is required. Using programmable, multi-rate SFPs enables the 2320 solution to be 100% remotely configurable. This minimizes spares holdings and costs, service turn-up delays and expensive truck rolls to remote sites.



RBNi GigaEdge 2320™ Specifications

xWDM Port Expander Application

SYSTEM

Muxponder interfaces:	OC-3, OC-12, OC-48, STM-1, STM-4, STM-16, FC, 2G-FC, FICON, ESCON, GigE, DVB-ASI
Muxponder capabilities:	Up to 4xANY client services in 1 rack unit - expandable to 16 services in 2.488 Gbit/s via 2320 stacking & VC-3/STS-1 grooming
Muxponder aggregate:	OC-12, OC-48, STM-4 or STM-16
Transponder interfaces:	OC-3, OC-12, OC-48, STM-1, STM-4, STM-16, FE, FC, 2G-FC, FICON, ESCON, GigE, DVB-ASI
Transponder capabilities:	Up to 3xANY client services at their native transmission rate.
Network Topologies:	Point-to-point: 2320 to 2320 xWDM Network: 2320 to xWDM Ring, Linear and Point-Point
Remote configuration:	Multiplexer fully reconfigurable from a remote location via Ethernet and in-band IP/DCC
Protection Options:	Optional 1+1 path protection on Muxponder aggregate port
Performance Monitoring:	ITU-T G.826/G.829/G.784 + Telcordia GR253/GR820+8B/10B
Diagnostic ability:	Built-in diagnostic loop-backs
Upgradeability:	Future-proof, fully programmable firmware platform for multi-vendor support with in-service software upgrades & configuration changes

OPTICAL

Optical Interfaces:	Hot-swappable SFPs supported on tributary and aggregate interfaces
Wavelengths:	1310nm SM, 850nm MM 1550nm SM, CWDM/DWDM SM
Safety:	Class 1 laser product

MANAGEMENT

Management Interfaces:	RS-232, 2 x 10/100BaseT
Craft Interface:	TL1, RBNi GigaCraft 1200
OSS Interfaces:	TL1, SNMP alarm & event traps
Supervisory Channel:	IP over DCC

ENVIRONMENTAL AND POWER

Operational Temperature Range:	-5°C to +55°C (no fans)
Shelf Dimensions:	19" x 11" x 1.75" (1RU)
Power Input Options:	48 VDC, A and B feeds, front or rear connection, 85-264 VAC, 50-60 Hz, rear connection only
Power Consumption:	50W (typ.) per fully provisioned unit

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