

## Sorrento GigaEdge 232™

### KEY FEATURES

- Single platform supports a 4xANY xWDM Muxponder or up to 3xANY xWDM Transponders
- Muxponder stacking enables more low speed services per xWDM  $\lambda$
- 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 600 series filters for passive drops and optional GigaEdge 820s or 232 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

**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.**

The Sorrento GigaEdge 232 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 232 units via 622Mbit/s or 2.488Gbit/s tributary connections using low cost grey (1310nm) SFP optics.

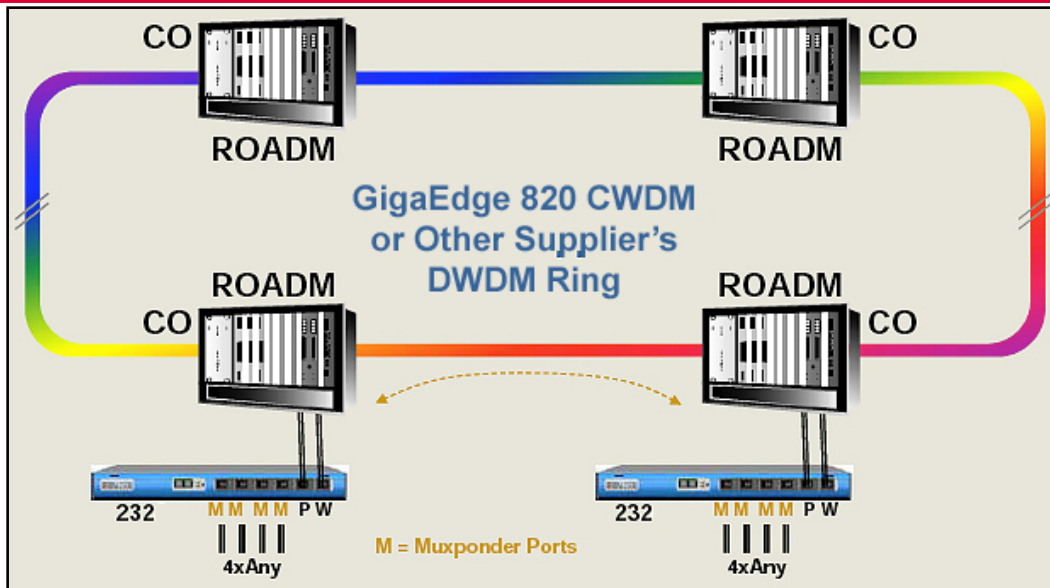


The GigaEdge 232 xWDM Muxponder + Transponder can terminate up to 5 Gbit/s of SONET/SDH plus high speed data capacity in one rack unit (eg, OC48 + GigE + Fiber Channel). As a 4xAny Muxponder, it is ideal as a port-expander for existing xWDM networks (such as a GigaEdge 820 CWDM network) to improve their wavelength efficiency and extend their life. Coloured xWDM SFP optics and external 600-series xWDM optical add/drop or terminal multiplexers are also available to implement new point-point, bus and ring xWDM networks.

The Sorrento GigaEdge 232 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 232 the most versatile multi-service xWDM Muxponder + Transponder



*xWDM Port Expander Application*

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, multirate SFPs enables the 232 solution to be 100% remotely configurable. This minimizes spares holdings and costs, service turn-up delays and expensive truck rolls to remote sites.

## SORRENTO GIGAEDGE 232™ SPECIFICATIONS

### 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 232 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: 232 to 232 xWDM Network: 232 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 xWDM Port Expander Application

### MANAGEMENT

**Management Interfaces:** RS-232, 2 x 10/100BaseT

**Craft Interface:** TL1, GigaCraft 120

**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 full



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Sorrento Networks is a global provider of metro optical access solutions, offering an edge-to-regional CWDM, DWDM and ROADM product portfolio to carriers and enterprises. Sorrento Networks' GigaMux and GigaEdge optical transport products efficiently add bandwidth to clients' networks, and transport mission-critical services and applications across the network infrastructure. The company is headquartered in Denver, Colo., with offices in Oakland, Calif. and Stuttgart, Germany. For more information, visit [www.sorrentonet.com](http://www.sorrentonet.com). Sorrento, the Sorrento Networks logos and all other Sorrento Networks product or service names are trademarks or registered trademarks of Sorrento Networks, Inc. All other trademarks are property of their respective owners. Copyright 2008 Sorrento Networks. All rights reserved.