

# Product Family Brief

## GigaMux 3200 Series

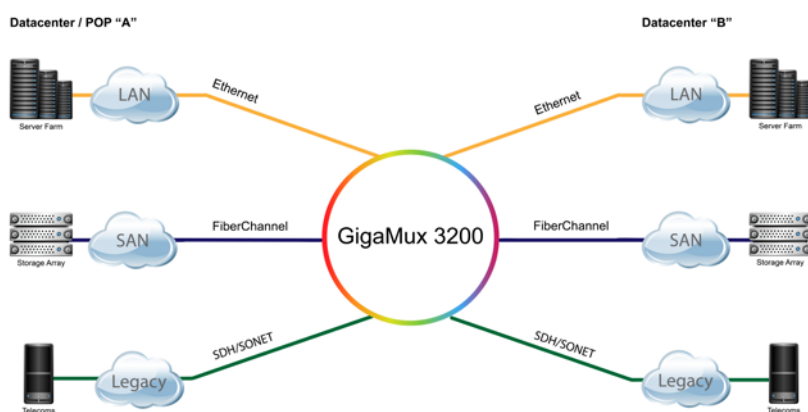


Sorrento Networks' GigaMux 3200 provides protocol independent data transport to carrier and enterprise broadband services using DWDM technology to significantly increase bandwidth.

Demands for bandwidth are intensifying at an unprecedented rate with trillions of financial transactions, streaming instances and downloads every day. As a consequence, bandwidth bottlenecks restrict enterprises from economically increasing their clientele. The GigaMux 3200 multiplexes Ethernet, SONET/SDH and SANs simultaneously and in their native format to enable operators to economically adapt and scale their network for when requirements change.

## Features

- » DWDM and CWDM solutions on a single shelf with both chassis
- » Ultra-low latency enables high frequency trading and synchronous DCI applications like disaster recovery
- » Flexible configuration offers 8-slot (2U) or 17-slot (5U) chassis options
- » Low power consumption
- » Cost-Effective 10G Transport
- » Up to 16G (GEN5) Fibre Channel
- » Line-speed AES-256 encryption utilises Diffie-Hellman Key Exchange
- » Data centre, metro and regional applications - 80km-200km-1500km
- » SDH/OTN features support legacy applications
- » SNMP / command line / GUI network management



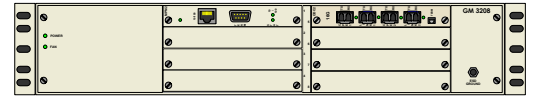
- » Deploy the GigaMux 3200 Series in a wide-variety of applications

## GM3208 & GM3217

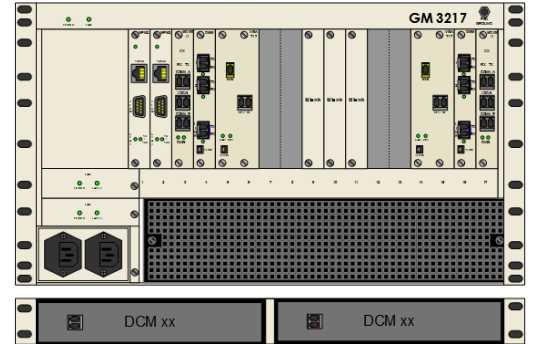
The Sorrento Networks' GigaMux 3200 Family has two chassis types - the GM3217 (5U) and the GM3208 (2U).

For large applications, the GigaMux 3217 provides the best flexibility to maintain a network for the future with a 17-slot chassis where up to 17 cards are supported.

In data centres, space can be at a premium and the GigaMux 3208 chassis is an ultra-compact solution at only 2U and supports 8 slots with up to eight cards.



» GigaMux 3208 Chassis



» GigaMux 3217 Chassis

## ODC2 ULTRA (Optical Data Card 2)

The ODC2 ULTRA transponder service card enables network operators to deploy ultra-latent 16G GEN5 Fibre Channel networks with speeds of up to 14.025 Gbps (Gigabits per second) and up to 10 Gigabit Ethernet. It also supports backwards compatibility for 4G and 8G Fibre Channel.

Robust AES-256, NIST DP800-90A compliant encryption securely encrypts data at Layer One using Diffie-Hellman Key Exchange to prevent the interception of company confidential information. This makes the ODC2 ULTRA card an ideal fit for data centres in finance, education and healthcare sectors in addition to data centre interconnect (DCI) and disaster recovery applications.

In addition, the transponder card helps to avoid data loss from errors with up to two REGEN instances per card and three-stage regeneration FEC.



## OTN10GF (Optical Transport Network)

The OTN10GF is a ten port (eight clients), multiprotocol muxponder card with dual 10G CWDM and DWDM capabilities. It unites multiprotocol support with high density and efficient muxing for today's concise data centres in point-to-point, linear add-drop and ring networks.

Both fibre and copper connections are supported using SFP-based optics and frees networks to span various distances of up to 100km line-side with FEC protection. Sub-50ms protection and internal pass-through also features.

The OTN10GF supports up to 4G Fibre Channel and Gigabit Ethernet with support for SONET/SDH interfaces for up to 2.5G. By integrating muxing and add/drop features, the OTN10GF eliminates the need



## OET10GF (Optical Ethernet Transport)

Multiplex ten Gigabit Ethernet interfaces onto a single 10G transponder, capable of remotely add-drop, mux, passthrough on a built-in Layer 2 switch with the OET10GF card. The Layer 2 switching capabilities, adapt and remotely provision services with ROADM-like functionality as required, which can significantly reduce network operating costs.

OET10GF employs flexible SFP optics to transmit and receive copper or fibre connections for extended and adaptive connectivity to reach the customer demarcation. Line-side XFP-based optics provide full 80 channel support in FEC or transparent operation.



## OCM10GF (Optical Channel Module)

The OCM10GF transponder service card provides ultra-low latency, high speed, and multi-service data transport to support a wide range of networking applications and topologies. OC-192/STM-64, 10 GbE WAN PHY, 10 GbE LAN PHY as well as 10G Fibre Channel are supported.

Through a single management command executed at the local OCM10GF card, network operators can rapidly change the rate of the application interface to adapt as environment factors change and are then relayed to the remote card. This is due to the Sorrento Networks' non-intrusive In-Wavelength Management (IWM) channel.



## DMM (Data Mux Module)

The DMM card is a single slot, 2.5G data mux transponder with full support to aggregate Gigabit Ethernet and 1G Fibre Channel, or a mix of these protocols into a single 2.5G WDM wavelength. The wavelength is compatible with both 200GHz CWDM and 100GHz DWDM spaced channels.

By multiplexing two ports or a mix of Ethernet or Fibre Channel, network operators can effectively double the capacity of their existing link, freeing from restrictive bandwidth.

Both line and client side optics use SFPs that can provide cost savings in opposition of fixed transponders.



### About Sorrento Networks

Sorrento Networks is a global provider of cost-effective optical transport solutions to carriers and enterprises throughout North America and Europe. Sorrento Networks is part of The Comtek Group, with facilities in the UK, USA, Netherlands, Turkey and Germany.



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