

# Product Note

## GigaMux 3300 Series



### DWDM Solution for Data Centre, Metro, Access and Enterprise Optical Transport

The ultra-compact GigaMux 3300 platform is the ideal solution for data centre connectivity, metropolitan networking and extension of optical transport to the network edge and enterprise at a very competitive CAPEX.

The GigaMux 3300 is a significant addition to Sorrento Networks' family of optical transport platforms. Offering line rate from 100Gb/s to 400Gb/s, the GigaMux 3300 capitalises the very latest intelligent optics technology to support any type of data centre, access-through-core, and enterprise optical transport application.

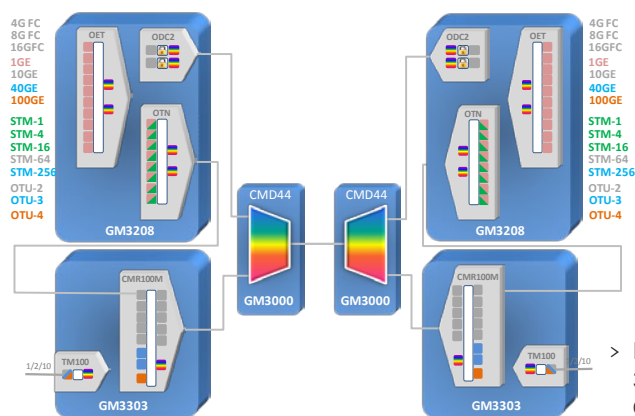
The GM3300 terminates and aggregates a broad range of Ethernet, Storage Area Network, SONET/SDH, and video service interfaces, and converts them to Dense Wavelength Division Multiplex (DWDM) optical signals using the Optical Transport Network (OTN) digital wrapper standard.



> GigaMux 3308 Chassis



> GigaMux 3303 Chassis



> Effortlessly deploy the GigaMux 3300 Series together with the GigaMux 3200 Series

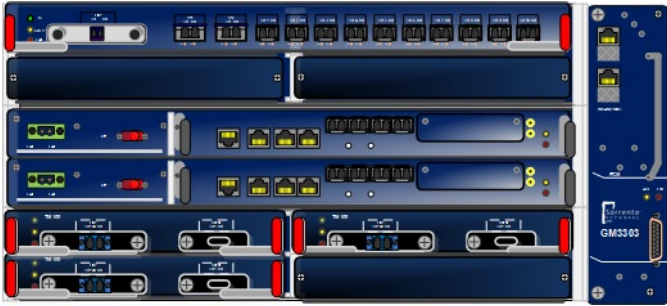
#### The GigaMux 3300 solution offers:

- > Two highly scalable chassis: GigaMux 3303 2-RU 3-slot; GigaMux 3308 5-RU 8-slot
- > Up to 100G Ethernet, SDH STM-1/4/16/64, Fibre Channel up to 16G services supported in one platform
- > 100Gbs coherent Smart Optics Engine for simplified link engineering and impressive link budgets
- > AES-256 Encryption with Diffie Hellman Group 5 Key Exchange
- > Interoperability with GM3200 and GM3000 family

### Highlights

- > 100G intelligent coherent optics for DCM-free links
- > High-density carrier-class optical transport
- > 100Gb/s non-coherent and coherent intelligent optics for flexible link engineering and impressive link budgets
- > Ultra-compact chassis models
- > Low power consumption
- > Extremely low latency
- > Layer 1 AES-256 encryption for maximum data security
- > Cost-effective 100 Gigabit Ethernet transport
- > OTN solution with transponders and muxponders
- > Storage Area Network (SAN) certified
- > Full-service network management and service automation suite
- > Metro and core applications up to 1500km
- > Pluggable transceiver optics modules

## Chassis



> GigaMux 3308 - 8-Slot Chassis (5U) - AC and DC Version

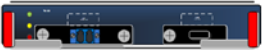


> GigaMux 3303 - 3-Slot Chassis (3U) - AC and DC Version

## 100G Transponder / Muxponder Cards



> CMR100M double-slot card - 1 CFP port , 2 QSFP ports , 10 SFP+ ports (Up to 16G FC, up to 100GbE)



> TM100 single-slot card - 1 CFP port, 1 CFP2 port (1x100GbE/2x40GbE/10x10GbE)

## Other Components

GigaMux 3300 Photonics	<ul style="list-style-type: none"> <li>• Filter DWDM - From four up to 80 channels</li> <li>• Band pass filter</li> <li>• Booster</li> <li>• Inline</li> <li>• Pre-amplifier</li> <li>• Optical Add-Drop Multiplexer (OADM)</li> <li>• Reconfigurable Optical Add-Drop Multiplexer (ROADM)</li> </ul>
GigaView 3000	Comprehensive LCT and EMS/NMS management suite

## Technical Specifications

Topologies	Ring, linear, point-to-point
Spectrum	C-band Fixed spectrum - 88 channels at 50GHz, 44 channels at 100GHz. Flexible spectrum (gridless)
Capacity	3 or 8 slots for cards, interchangeable across GM3300 family platforms
Link	8.8 Tbps (88 ch x 100 Gbps)
Service Interfaces	Ethernet (1GbE, 10GbE, 40GbE, 100GbE) SDH/SONET (STM-1,4,16,64 / OC-3,12, 48,192) SAN (FC-1, 2, 4, 8,16) Video (DVB-ASI, SDI 270, HDSDI 1.5G/3G) OTU (1, 2, 2e, 3, 4)
Encryption	AES-256 with Diffie-Hellman group 5 key exchange
Network (DWDM) Interfaces	OTU1 (2.5 Gbps) OTU2/2e (10 Gbps) OTU3e (40 Gbps) OTU4 (100Gbps)
Amplification	EDFA, Hybrid EDFA/Raman, with embedded optical leveling and control Output power from 16 dBm to 23 dBm Gain up to 40 dB with 10 dB midstage
DWDM Protection	OCH 1+1, OLP, OMSP, Y Protection
Optical Add/Drop Multiplexers	Fixed OADM, ROADM 100% add/drop capacity
Hardware Redundancy	Power supply, fans
Power Input	-40.5 VDC to -75 VDC AC mains
Environmental	Operating temperature: -5°C to +55°C Relative humidity: 5% to 90% (non-condensing)



### 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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