

Sorrento GigaEdge 600™

FEATURES AND BENEFITS

Lower capex

- Low first-in and incremental cost meets carrier and enterprise need to match infrastructure cost to revenue
- Small footprint 1RU chassis with two slots for modular expansion
- ITU-T G.694.2 compliant filters interface to industry standard Small Form-factor Pluggable (SFP) and GBIC transceivers
- In GigaEdge 820 ring and linear add/drop networks, enables low cost single lambda drops while retaining other 820 network features.

Lower opex

- Integrates with existing CWDM network architectures
- High reliability – no electronic parts subject to failure mechanisms
- Consumes no power
- SFW option reduces fiber lease cost
- Supports 1310nm pass-through for GigaEdge 820 OSC for remote management or legacy PDH transport applications
- Same platform deployable anywhere– building basements, computer rooms, riser systems, OSP cabinets (EH version) and telephone exchanges

Small and simple yet flexible and powerful, the Sorrento GigaEdge is your cost-effective Service Network solution for metro and access.



The Sorrento GigaEdge 600 series passive CWDM filter products complement the GigaEdge 233 mini-MSPP and GigaEdge 820 CWDM products by enabling lower first-in cost and lower total network cost.

The 600 series products support open CWDM networks and hybrid CWDM/DWDM network architectures. Client interfaces conforming to ITU-T G.694.2 CWDM wavelengths can be transported over single or dual fibre networks using the 600 series products.

Up to 8 CWDM wavelengths in the S, C & L bands are supported on existing G.652 fibre with a 1310/CWDM filter option for older 1310nm services such as PDH. For new fibre applications such as FTTP, additional E-band CWDM wavelengths are supported in the future on G.652.C low water peak fibre.

The 600 series comprises a 601 multi-purpose 2-slot chassis into which a range of Dual Fibre Working (DFW) and Single Fibre Working (SFW) filter modules can be installed. The DFW and SFW module options support a wide variety of customer and application requirements. Environmentally Hardened (EH) versions are available.

The 62xx DFW modules include an 8 channel Mux/Demux, 4 channel OADM and 1-channel OADM. The 61xx SFW modules include a 4 channel Mux/Demux and 1-channel OADM with 1310nm pass-through for GigaEdge 820 management support. A 631 module is available for 1310/CWDM band splitting (eg, PDH applications) and a 6550 module supports hybrid CWDM/DWDM networks by splitting out the 1550nm C-Band wavelengths.

For CWDM applications requiring regeneration, the 61xx modules



GigaEdge 601 Chassis Schematic GigaEdge 611-1 and 631 Modules

interface to the GigaEdge 820 Reconfigurable OADM and 810 Regen products – thus enabling much larger network sizes compared to other all-optical CWDM solutions.

SORRENTO GIGAEDGE 600™ SPECIFICATIONS

SYSTEM

Customer services supported: All protocols up to 10 Gbit/s., PDH on 1310nm supported via GigaEdge 631 filter module

Client CWDM interfaces: All-optical 600 series networks support client, interfaces with channelized CWDM optics complying to ITU-T G.694.2

Network topologies: Point-to-point, linear add/drop bus, ring or star, Dual-fibre or single-fibre networks, Hybrid CWDM/DWDM networks

Protection options: OADM filter modules with east and west ports support external client and optical layer protection switching options

Management support: All passive components do not require remote management, 1310 OSC pass-through on 61xx OADMs support, GigaEdge 820 in-band management, GigaEdge 230 products with CWDM SFPs managed via DCC

PART NOS AND OPTICAL SPECS

6010: Universal Chassis (2 slot): 17.25" x 10.57" x 1.74" (W x D x H) - Blanking plates optional

611: SFW OADM-1 (-1, -2, -3, -4 channel variants) 1.5dB add/drop loss, 1.5dB pass-through loss for CWDM, 2.7dB pass-through loss for 1310nm¹

614: SFW 4-Ch Mux/Demux (-1, -2 west/east variants) 3.0dB add/drop loss, 1dB port-port loss

variance¹

621: DFW OADM-1 (-1, -2, -3, ..., -8 channel variants²) 1.5dB add/drop loss, 1.5dB pass-through loss¹

624: DFW OADM-4 (-1, -2 channel variants) 2.5dB add/drop loss, 2.35dB pass-through loss¹

628: DFW 8-Ch Mux/Demux 3.0dB add/drop loss¹

631: 1310/CWDM Mux/Demux 1.25dB CWDM and 1.5dB 1310nm insertion loss¹

655: 1550/CWDM Mux/Demux 2.0dB CWDM and 1.5dB 1550nm insertion loss¹

Note 1: All filter loss specifications are maximum assuming an optical connector loss of 0.25dB / connector. All optical connectors are dual SC/PC. See detailed product specification sheets for PDL, PMD, isolation, directivity, ripple and return loss

Note 2: 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611 nm

ENVIRONMENTAL AND MECHANICAL SPECS

Operating Temperature Range: 0°C to +70°C (-40 to +85°C EH ver)

Relative Humidity: 10% to 85% non-condensing

Storage Temperature Range: -40°C to +85°C

Chassis Dimensions: (W x H x D) 17.25" x 1.74" (1RU) x 10.57"

Module Dimensions: (W x H x D) 8.3" x 1.7" x 10.4"



Sorrento Networks
9137 East Mineral Circle
Suite 340
Centennial, CO 80112

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. 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.