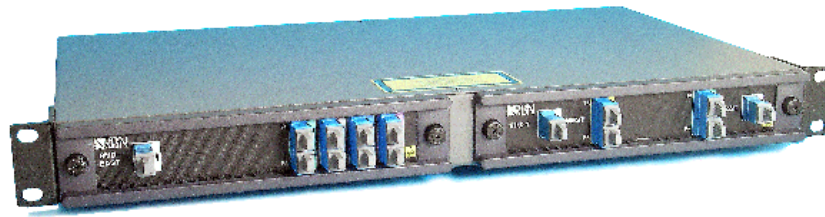


# RBNi GigaEdge 6000™

- simple, cost-effective, carrier-class CWDM solutions

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



## KEY FEATURES

### 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 8200 ring and linear add/drop networks, enables low cost single lambda drops while retaining other 8200 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 8200 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

The RBNi GigaEdge 6000 series passive CWDM filter products complement the GigaEdge 2330 mini-MSPP and GigaEdge 8200 CWDM products by enabling lower first-in cost and lower total network cost.

The 6000 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 6000 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 6000 series comprises a 6010 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 8200 management support. A 6310 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 interface to the GigaEdge 8200 Reconfigurable OADM and 8100 Regen products - thus enabling much larger network sizes compared to other all-optical CWDM solutions.

## GigaEdge 6010 Chassis Schematic



### GigaEdge 6110-1 and 6310 Modules

## RBNi GigaEdge 6000 Series

### SYSTEM

Customer services supported	All protocols up to 10 Gbit/s. PDH on 1310nm supported via GigaEdge 6310 filter module
Client CWDM interfaces	All-optical 6000 series networks support client interfaces with channelised 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 8200 in-band management  GigaEdge 2300 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
6110	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 1310nm <sup>1</sup>
6140	SFW 4-Ch Mux/Demux (-1, -2 west/east variants) 3.0dB add/drop loss, 1dB port-port loss variance <sup>1</sup>
6210	DFW OADM-1 (-1, -2, -3, ..., -8 channel variants <sup>2</sup> ) 1.5dB add/drop loss, 1.5dB pass-through loss <sup>1</sup>
6240	DFW OADM-4 (-1, -2 channel variants) 2.5dB add/drop loss, 2.35dB pass-through loss <sup>1</sup>
6280	DFW 8-Ch Mux/Demux 3.0dB add/drop loss <sup>1</sup>
6310	1310/CWDM Mux/Demux 1.25dB CWDM and 1.5dB 1310nm insertion loss <sup>1</sup>
6550	1550/CWDM Mux/Demux 2.0dB CWDM and 1.5dB 1550nm insertion loss <sup>1</sup>
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"

Please contact RBN for further product information