## BlackDiamond Gigabit Ethernet Modules

## Product Description

The BlackDiamond 6800 series switch can support up to 128 wire-speed Gigabit Ethernet ports. The Gigabit Ethernet modules are based on the Extreme Networks i chipset allowing them to support advanced high performance features.

## Key Features and Benefits

- Policy-Based QoS at wire speed to allocate bandwidth, and prioritize traffic
- Wire-speed IP/IPX routing using RIP v1/v2 OSPF, BGP4, PIM and DVMRP
- Bidirectional rate shaping to provision to manage bandwidth by the slice
- Access Control Lists can be linked to a class of service, while performing Layer 1-4 packet-level security and controlling traffic flows – all at wire-speed

## BlackDiamond Gigabit Ethernet Modules Product Specifications

**General**

*Number of ports:*
- G8Xi: 8 ports of 1000BASE-X GBIC
- G8Ti: 8 ports of 100/1000BASE-TX (auto-negotiating)
- G12SXi: 12 ports of 1000BASE-SX

*Connectors:*
- G8Xi: GBIC
- G8Ti: RJ-45
- G12SXi: MT-RJ

*Port density per chassis:*
- BlackDiamond 6804: 32 ports with G8Xi or G8Ti; 48 ports with G12SXi
- BlackDiamond 6808: 64 ports with G8Xi or G8Ti; 96 ports with G12SXi
- BlackDiamond 6816: 128 ports with G8Xi or G8T1; 192 ports with G12SXi

*Distance:*
- G8Xi: depends on GBIC type
- G8Ti: 100 meters
- G12SXi: 220 meters or 550 meters (depending on fiber type)

**Physical Specifications**
- Occupies a single I/O slot on a BlackDiamond 6800 series chassis.
- Module dimensions (H x W x D): 1.6 x 15.1 x 16.0 in (4.1 x 38.4 x 40.6 cm)
- Module weight: 6.25lb (2.81 kg)
- Shipping box dimensions (H x W x D): 3.25 x 21 x 20.25 in (8.3 x 53.3 x 51.4 cm)

**Environmental Conditions**
- Operating temperature: 0˚ to 40˚ C
- Storage temperature: -40˚ to 70˚ C
- Operating relative humidity: 10% to 95%, non-condensing
- MTBF
  - G8Xi module: 558,319 hours
  - G8Ti module: 219,822 hours
  - G12SXi Module: 202,841 hours

**Specifications continued on page 2**

## Specifications Continued

### Safety Compliance
- UL 1950 3rd Edition, Listed (Safety of ITE)
- EN60950:1992/A1-4:1997+ZB/ZC Deviations (Safety of ITE)
- IEC 950CB (Safety of ITE)
- Low Voltage Directive (LVD)
- CSA 22.2#950-95 (Safety of ITE)
- AS/NZX 3260 (Product Safety Standard)
- EN60825-1 (Safety of Laser Products)
- FCC CFR 21 (Laser Products)

### EMI/EMC Compliance
- NEBS Level III
- FCC CFR 47 part 15 Class A (USA EMC standard)
- ICES-003A/C108.8-M1983 Class A (Canada EMC standard)
- VCCI Class A (Japan EMC standard)
- AS/NZS 3548 (Australia EMC standard)
- EN 55022 Class A (European EMC standard)
- CISPR 22 Class A (European EMC standard)
- EN 50082-1:1997 includes ENV 50204 (European EMC standards)
- EN 55024:1998 includes IEC 61000-4-2, 3, 4, 5, 6, 8, 11 (European EMC standards)
- EN 61000-3-2,3 (European EMC standards)
- CNS 13438 Class A (BSMI-Taiwan)
- Low Voltage Directive (LVD)

## Ordering Information

| Part Number | Product | Description |
| --- | --- | --- |
| 51032 | G8Xi | BlackDiamond 6800 8-port 1000BASE-X Module with GBIC connectors |
| 51033 | G8Ti | BlackDiamond 6800 8-port 100/1000BASE-T Module with RJ-45 connectors |
| 51040 | G12SXi | BlackDiamond 6800 12-port 1000BASE-SX Module with MT-RJ connectors |
| 10011 | SX GBIC | 1000BASE-SX GBIC short distance transceiver MMF-220 and 550 meters |
| 10013 | LX GBIC | 1000BASE-LX GBIC long distance transceiver MMF-220 and 550 meters and SMF-10 kilometers |
| 10016 | LX70 GBIC | 1000BASE-LX70 GBIC extra long distance transceiver SMF-70 kilometers |
| 10017 | ZX GBIC | 1000BASE-ZX GBIC extra long distance transceiver SMF-70 kilometers/24dB budget |

extreme networks

3585 Monroe Street Santa Clara, CA 95051-1450 Phone 408.579.2800 Fax 408.579.3000

Email info@extremenetworks.com Web www.extremenetworks.com

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