

Product Description

Further making “Ethernet Everywhere” a reality, Extreme Networks has developed a series of modules for the BlackDiamond 6800 chassis series to migrate legacy networks into the world of Gigabit Ethernet. The ATM module for the BlackDiamond 6800 chassis series allows networks built on ATM legacy technology to easily link to Ethernet technology.

The ATM module maps 802.1Q VLAN tags onto ATM PVCs (Permanent Virtual Circuits). This enables service providers and enterprise networkers to simply nail up PVCs and deliver Layer 2 transparent LAN services. In the enterprise this is crucial to maintain security within VLANs. For service providers, it enables the delivery of far superior services based on Ethernet, while leveraging existing investments in the ATM core.

Key Features and Benefits

The ATM module support the following key networking functions:

- Support of Synchronous Optical Network (SONET) and Synchronous Digital Hierarchy (SDH) modes of operation
- IP routing via the Logical Link Control (LLC) Encapsulation for Routed Protocols compatible with RFC 2684/RFC 1483
- Transparent LAN Services (TLS) over Asynchronous Transfer Mode (ATM) via the LLC Encapsulation for Bridged Protocols compatible with RFC 2684/RFC 1483
- Up to 3000 PVCs per ATM port
- Multiple VLANs on the same PVC
- Routed and bridged encapsulations on the same PVC
- Support for jumbo frames
- Quality of Service (QoS) and Differentiated Services (DiffServ) features, including:
 - Eight ingress queues and eight egress queues per interface
 - Ingress and egress rate shaping and limiting
 - IEEE 802.1Q VLAN priorities
 - Weighted RED (WRED) congestion avoidance algorithm
 - Assured Forwarding and Expedited Forwarding RFCs
 - Flexible remapping of DiffServ codepoints
 - Flexible remapping of IEEE 802.1Q VLAN IDs
 - VLAN tunneling via nested 802.1Q tags

Specifications

Protocols and Standards

- RFC 1213 - Management Information Base for Network Management of TCP/IP-based internets:MIB-II
- RFC 2684/1483 - Multiprotocol Encapsulation over ATM Adaptation Layer 5
- RFC 2515 - Definitions of Managed Objects for ATM Management
- 802.1d – MAC Bridges
- 802.1p - Traffic Class and Dynamic Multicast Filtering Services in Bridged LANs
- 802.1Q – Virtual LANs

Physical Dimensions

- Occupies one slot in 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: 5.25 lbs. (2.38 Kg)
- Shipping box dimensions (H x W x D): 3.25 x 21.00 x 20.25 in. (8.33 x 53.30 x 51.40 cm)
- Module weight (with shipping box): 7.75 lbs. (3.51 Kg)

Environment

- Operating Temperature:0° C to 40° C
- Storage Temperature:-40° C to 70° C
- Operating Humidity :10% to 95% relative humidity, non-condensing
- EN60068 to Extreme IEC68 schedule

Specifications continued on page 2

Specifications Continued

- Operating altitude: -200 to 15,000 ft (-60 to 4600 m)
- Storage altitude: 35,000 ft (11,000 m)
- Mean Time Between Failure (MTBF): 208,579 hours
- Power consumption: 83W

Regulatory

- FCC CFR 47 part 15 Class A
- EN 55024:1998 ICES-003A/C108.8-M1983 Class
- VCCI Class A
- AS/NZS 3548
- EN 55022 Class A
- CISPR 22 Class A
- EN 50082-1:1997 includes ENV 50204 includes IEC 61000-4-2, 3, 4, 5, 6, 8, 11
- Low Voltage Directive (LVD)

Safety

- UL 1950 3rd Edition, Listed
- EN60950:1992/A1-4:1997+ZB/ZC Deviations
- IEC 950CB
- Low Voltage Directive (LVD)
- CSA 22.2#950-95
- AS/NZS 3260

EM/EMC

- 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 standards)
- EN 50082-1:1997 includes ENV 50204 (European EMC standard)
- 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
53111	A3cSi	4-port SONET/SDH OC-3/STM-1 ATM SMF



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