

X-PEDITION™ SSR-GTX32-04 1000BASE-TX ETHERNET T-SERIES MODULE

Data Sheet



- **T-Series enhanced hardware support for the X-Pedition 8X00**
 - Local hardware routing tables support more than 200,000 routes on each module
 - Jumbo frames support up to 64,000 bytes
- **Full-function Layer 2, 3 and 4 switching**
 - Wire-speed, standards-based IP/IPX routing on every port
 - Layer 2/3/4 application switching on every port
- **Layer 4 application control to prioritize applications**
 - Packet forwarding based on Layer 4 application information
 - Wire-speed Network Address Translation (NAT)
 - Server load balancing (LSNAT) feature on every port
- **Extensive QoS support**
 - Port Rate Limiting allows bandwidth control per physical port
 - Per Flow Rate Limit and Aggregate Rate Limit allows bandwidth control on application flow
 - Supports Weighted Fair Queuing (WFQ) and Weighted Random Early Discard (WRED)
- **Investment protection**
 - All line cards are fully interchangeable between the X-Pedition switch router 8000 and 8600

Gigabit Power for End Users, Multilayer Support for Network Managers

The T-Series Gigabit Ethernet module for the X-Pedition 8000 and 8600 delivers the necessary bandwidth and control to support newer applications and guarantee Quality of Service.

High-Density Gigabit Ethernet for Larger Applications, Larger Workgroups

The SSR-GTX32-04 is a new double-density T-Series Gigabit Ethernet switch router module for the X-Pedition 8000 and 8600 switch router chassis. Providing four ports of 1000Base-TX switched and routed connectivity, the SSR-GTX32-04 is ideal for large workgroups that require higher speed connections to support emerging bandwidth-hungry applications, including converged voice, video and data traffic.

Equally important in mission-critical environments, the SSR-GTX32-04 module delivers full-function Layer 2, 3 and 4 switching and routing in hardware, eliminating the performance bottleneck cause by a single processor. Application performance is further enhanced through the SSR-GTX32-04's support of pinpoint control features such as Network Address Translation, server load balancing, per-flow Rate Limiting and Access Control Lists. The advanced T-Series ASIC chip found on this module also provides a number of advanced services such as Port Rate Limiting, Aggregate Rate Limiting and Jumbo Frame support that together offer essential management functions today's larger enterprise networks demand.

TECHNICAL SPECIFICATIONS

Switching Engine

Custom X-Pedition Router ASIC

Buffer Memory

8 MB per port

Layer 2 Address Table Size

512,000 entries

Layer 3/4 Table Memory

16 MB

Layer 3/4 Table Size

256,000 entries

MTBF (Predicted)

> 200,000 hr.

In-Band Management

Remote SNMP management via NetSight™ Element Manager

PHYSICAL SPECIFICATIONS

Interfaces

4-port 1000Base-TX via RJ45

Dimensions

27.94 cm (11") x 19.68 cm (7.75") x 3.94 cm (1.55")

Weight

1.4 kg (3 lbs)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature

+5° to +40° C (+41° to +104° F)

Non-Operating Temperature

-30° to +73° C (-22° to 164° F)

Operating Humidity

15% to 90% (non-condensing)

Power Consumption

100 to 125 VAC, 7A maximum or 200 to 250 VAC, 3.5 A maximum
50 to 60 Hz

Power Measured TX

3.3V	12.3A	40.6W
5V	976mA	4.88W
Total	9.288 A	45.48W

PROTOCOLS AND STANDARDS

IP Routing

RIP V1/V2, OSPF, BGP-4

IPX Routing

RIP, SAP

Multicast Support

IGMP, DVMRP, PIM-SM

QoS

Application level, RSVP

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AGENCY STANDARDS AND SPECIFICATIONS

Safety

Meets the requirements of UL1950, CSA C22.2 No. 950, EN60950, IEC950 and 73/23/EEC

Electromagnetic Compatibility (EMC)

Compliant with the requirements of FCC Part 15, CSA C108.8, EN555022, VCCI V-3/93.01, EN50082-1 and 89/336/EEC

RFCs/MIBs

RFC 1058 RIP v1
RFC 1105 BGP
RFC 1157 SNMPv1
RFC 1163 BGP-2
RFC 1213 MIB-2
RFC 1253 OSPF v2 MIB
RFC 1256 ICMP Router Discover Message
RFC 1265 BGP Protocol Analysis
RFC 1266 Experience with the BGP Protocol
RFC 1267 BGP-3
RFC 1293 Inverse ARP
RFC 1332 PPP Internet Protocol Control Protocol (IPCP)
RFC 1349 Type of Service in the Internet Protocol Suite
RFC 1397 BGP Default Route Advertisement
RFC 1490 Multiprotocol Interconnect over Frame Relay
RFC 1519 CIDR
RFC 1548 The Point-to-Point Protocol (PPP)
RFC 1552 The PPP Internetwork Packet Exchange Control Protocol (IPXCP)
RFC 1570 PPP LCP Extensions
RFC 1573 Evolution of the Interfaces Group of MIB-II
RFC 1583 OSPF v2
RFC 1631 IP Network Address Translator
RFC 1638 PPP Bridging Control Protocol (BCP)
RFC 1656 BGP-4 Protocol Document Roadmap and Implementation Experience
RFC 1657 BGP-4 Definitions of Managed Objects
RFC 1661 PPP (Point-to-Point Protocol)
RFC 1662 PPP in HDLC-Like Framing
RFC 1723 RIP v2
RFC 1771 BGP-4
RFC 1772 Application of BGP in the Internet
RFC 1812 Router Requirements
RFC 1966 BGP Route Reflection
RFC 1990 PPP Multilink Protocol
RFC 1997 BGP Communities Attribute
RFC 2096 IP Forwarding MIB
RFC 2131 Dynamic Host Configuration Protocol
RFC 2236 Internet Group Management Protocol, Version 2
RFC 2391 Load Sharing Using IP Network Address Translation (Load Balance)

IEEE 802.3ab 1000Base-T Characteristics

Segment Length

100 m (328 ft.)

Minimum Cable Requirement

Category 5 cabling system as per ANSI/TIA/EIA-568-A.
Return loss and Equal Level Far End Crosstalk (ELFEXT) as per ANSI/TIA/EIA TSB-95

ORDERING INFORMATION

SSR-GTX32-04

4-port 1000Base-TX module for the X-Pedition 8000 and 8600

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