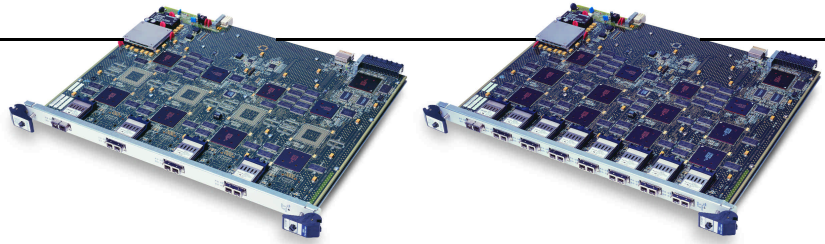


Gigabit Ethernet GBIC Module: RS 32000 Chassis



Overview

The Gigabit Ethernet switch router modules offer a flexible means of interconnecting sites. There are two base versions of the modules, a four port and an eight port card. Each module utilizes GBIC technology allowing for mixing and matching media as needed, whether Multi-Mode Fiber (MMF), Single Mode Fiber for Intermediate ranges (SMF-IR) up to 10 km, or SMF for long range (SMF-LR) up to 70 km.

The RS 32000 Gigabit Ethernet switch router modules support the Business enabling Quality of Service (*e*-QoS) feature set for provisioning tiered levels of service to customers. They also support the internet Business Intelligence Gathering (iBIG) feature set for supplying accounting and billing information for *e*-QoS services.

Gigabit Ethernet GBIC Module: RS 32000 Chassis

Features

- Offers flexible selection in Gigabit Ethernet Interconnection, MMF, SMF-IR, and SMF-LR through GBIC modules
- Select the port density you need, add the media when needed
- Support the *e*-QoS feature set for provisioning tiered levels of services
- Supports iBIG features for gathering real-time service intelligence data for accounting and billing

Key Applications

- Traffic aggregation over Gigabit Ethernet links for POP sites and data centers
- Aggregate traffic directly from geographically distant POP sites to high-speed Internet backbones
- Enable rapid deployment of transparent LAN Services and leverage low-cost Gigabit Ethernet for metro area network facility interconnections over new or installed fiber
- Integrate iBIG billing and monitoring with real-time port-level flow accounting and full RMON statistics
- Provision billable *e*-QoS IP services per user or per application

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Gigabit Ethernet GBIC Module (RS 3200 Chassis): Technical Specifications

Technical Specifications

Module Specifications

MTBF (Predicted): >200,000 hr.

Interface Types: 4 or 8 GBIC

Physical Specifications

Dimensions: 11" x 17"
(27.94 cm x 43.18 cm)

Weight: 10.0 lbs. (4.7 kg)

Environmental Specifications

Operating Temp: +0° to +40°C (32° to 104°F)

Non-Operating Temp: -30° to +90°C (-22° to 194°F)

Operating Humidity: 5% to 95% (non-condensing)

Power Consumption: 100 to 125 VAC Max or
200 to 250 VAC Max, 50 to 60 Hz

Agency Standards and Specifications

Safety: Meets the requirements of UL1950,
CSA C22.2 No. 950, EN60950,
IEC950 and 72/73/EEC

Electromagnetic Compatibility: Compliant with the requirements of
FCC Part 15, CSA C108.8, EN55022,
VCCI V-3/93.01, EN50082-1 and
89/336/EEC

Interfaces

IETF Standards Support

RFC 1058
RFC 1105
RFC 1157
RFC 1163
RFC 1213
RFC 1253
RFC 1256
RFC 1265
RFC 1266
RFC 1267
RFC 1293
RFC 1332

RFC 1349

RFC 1397
RFC 1490

RFC 1519
RFC 1548
RFC 1552

RFC 1570
RFC 1573
RFC 1583
RFC 1631
RFC 1638
RFC 1656

RFC 1657
RFC 1661
RFC 1662
RFC 1723
RFC 1771
RFC 1772
RFC 1812
RFC 1966
RFC 1990
RFC 1997
RFC 2096
RFC 2131
RFC 2225
RFC 2236

RFC 2391

RIP v1
BGP
SNMPv1
BGP-2
MIB-2
OSPF v2 MIB
ICMP Router Discover Message
BGP Protocol Analysis
Experience with the BGP Protocol
BGP-3
Inverse ARP
PPP Internet Protocol Control Protocol (IPCP)
Type of Service in the Internet Protocol Suite
BGP Default Route Advertisement
Multiprotocol Interconnect over Frame Relay
CIDR
The Point-to-Point Protocol (PPP)
The PPP Internetwork Packet Exchange Control Protocol (IPXCP)
PPP LCP Extensions
Evolution of the Interfaces Group of MIB-II
OSPF v2
IP Network Address Translator
PPP Bridging Control Protocol (BCP)
BGP-4 Protocol Document Roadmap and Implementation Experience
BGP-4 Definitions of Managed Objects
PPP (Point-to-Point Protocol)
PPP in HDLC-like Framing
RIP v2
BGP-4
Application of BGP in the Internet Router Requirements
BGP Route Reflection
PPP Multi-Link Protocol
BGP Communities Attribute
IP Forwarding MIB
Dynamic Host Configuration Protocol
Classical IP and ARP over ATM
Internet Group Management Protocol, Version 2
Load Sharing using IP Network Address Translation (Load Balance)

IETF Standards MIB Support

RFC 1471
RFC 1472
RFC 1473
RFC 1474
RFC 1493

RFC 1643
RFC 1654
RFC 1724
RFC 1757

RFC 1850
RFC 2011
RFC 2021

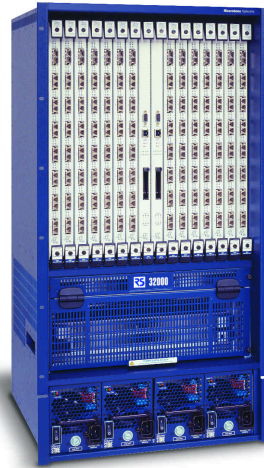
RFC 2096
RFC 2115
RFC 2233
RFC 2271
RFC 2618

PPP LCP (Link Control Protocol)
PPP Security Protocol
PPP IP NCP (Network Control Protocol)
PPP Bridge NCP
Definitions of Managed Objects for Bridges
Ethernet Like Interface MIB
BGP4 MIB
RIPv2 MIB
Remote Network Monitoring (RMON) Management Information Base
OSPF and OSPF Trap MIB
Internet Protocol using SMIv2
Remote Network Monitoring Version 2 (RMON 2)
IP Forwarding MIB
Frame Relay DTE using SMIv2
Interfaces Group using SMIv2
SNMP Management Frameworks
Radius Authentication Client

Ordering Information

Part No.	Product Description
R32-GBCC-04	4 Port Gigabit Ethernet Switch Router Module with blank GBIC bays
G2M-SECAC-04	8 Port Gigabit Ethernet Switch Router Module with blank GBIC bays
GIC-11	MMF GBIC Module
GIC-18	SMF-IR GBIC Module
GIC-17	SMF-LR GBIC Module

For complete ordering information, including specific modules, contact your Riverstone representative at **(408) 878-6500**. You may also visit our Website at www.riverstonenet.com.



Modules are specifically for the RS 3200 chassis



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