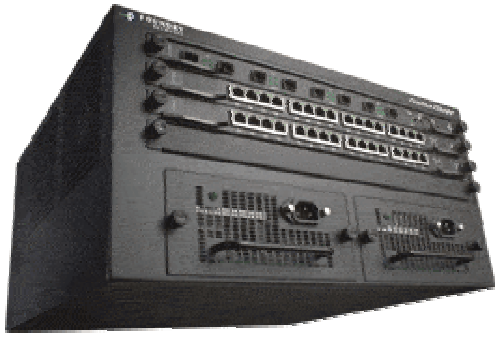
DATASHEET

FASTIRON 3208RGC



The FastIron 3208RGC is a member of the JetCore-based FastIron product family, offering an advanced, modular Layer 2/3 fully redundant system with 10 Gigabit Ethernet capabilities, making it an ideal fit for high performance server farm connectivity. The FastIron 3208RGC is equipped with 32 ports of 100/1000 auto-sensing, auto MID/MDIX Gigabit Ethernet over copper interfaces, 8 mini-GBIC slots and one expansion slot that can accommodate an additional Gigabit Ethernet, redundant management or 10GbE module. The FI3208RGC delivers cost-effective Gigabit Ethernet over copper interfaces for scaling server bandwidth and offers smooth migration to the desktop. The JetCore-based FastIron systems are the first in the industry to provide Enterprise customers with a complete end-to-end LAN solution, ranging from the wiring closet to the LAN backbone, based on a single product family. The single JetCore product family simplifies network operations, administration, and sparing requirements, leading to dramatic savings in Total Cost of Ownership, (TCO).

The JetCore-based FastIron systems also support 10 Gigabit Ethernet interface modules, to scale backbone connectivity. In addition, Foundry's IronShield™ security features protect the server farm against Denial of Service (DoS) attacks and provide administration security. These security features eliminate unnecessary network downtime caused by malicious hacker attacks.

The new FastIron 3208RGC systems include advanced Layer 2/3 feature sets that deliver industry-leading scalability and performance, with embedded support for IP, IPX and AppleTalk based switching and Jumbo frames, useful for reducing CPU cycles during server farm backup operations. The FastIron can be upgraded with full multi-protocol routing capabilities including RIP and OSPF. Fine-grain bandwidth provisioning, sFlow™ (RFC 3176), rich QoS, complete multicast, and jumbo frames provide a complete enterprise LAN solution and a perfect foundation for voice over IP (VoIP) and next-generation streaming media applications.

Key Features

- Complete Enterprise wiring closet, server/data center and LAN backbone solution based on a single product family
- Superior high availability with redundant management modules including temperature sensors, hot-swappable, load-sharing power supplies and hot-swappable interface modules
- 10GbE module support for providing high speed, low latency access to servers
- Rich QoS features with wire-speed fine-grain bandwidth management and a complete multicast feature set provides a superior foundation VoIP
- Advanced Layer 2/3 feature set including integrated IP, IPX, AppleTalk and OSPF protocols
- Jumbo frame support on Gigabit and 10 GbE interfaces easily scales server farm throughput
- IronShield security protects against DoS attacks and prevents unauthorized access to networks and server farms
- JetScope ASIC based sFlow (RFC 3176) support provides Enterprises with per-port, wire-speed network monitoring for capacity planning and security analysis

DATASHEET

FASTIRON 3208RGC

System Summary

Feature	FastIron 3208RGC
Expansion Slots	1
Total Switching Capacity	128 Gbps
Routed/Switched (Mbps)	48 Mpps
Max 100/1000 ports	48
Max Gigabit Fiber ports	24
Max 10 Gigabit ports	1
Height	8.75"
Power Supply Redundancy	1+1

Technical Specifications

IEEE Compliance

- 802.3,10BaseT
- 802.3u 100BaseTX, 100BaseFX
- 802.3z 1000BaseSX
- 802.3z 1000BaseLX
- 802.3ab 1000BaseT
- 802.3ae 10 Gigabit Ethernet
- 802.3x Flow Control
- 802.3ad Link Aggregation
- 802.1p/q VLAN Tagging
- 802.1d Bridging
- 802.1w Rapid STP
- 802.1x Port Network Access control
- 802.3 Ethernet Like MIB
- Repeater MIB
- Ethernet Interface MIB
- SNMP V1,V2c
- SNMP MIB II

RFC Compliance

OSPF

- RFC 2178 OSPF
- RFC 1583 OSPF v2
- RFC 1587 OSPF NSSA
- RFC 1745 OSPF Interactions
- RFC 1765 OSPF Database Overflow
- RFC 1850 OSPF Traps
- RFC 2154 OSPF w/Digital Signatures (Password, MD-5)
- RFC2328 OSPF v2
- RFC 1850 OSPF v2 MIB
- RFC 1997 Communities Attributes
- RFC 2385 TCP MD5
- RFC 2439 Route Flap Damping
- RFC 2842 Capabilities Advertisement
- RFC 2918 Route Refresh Capability
- RFC 2370 OSPF Opaque LSA Option

RIP

- RFC 1058 RIP v1
- RFC 1723 RIP v2
- RFC 1812 RIP Requirements

IP Multicast

- RFC 1122 Host Extensions
- RFC 1122 DVMRP Host Requirements
- RFC 1256 ICMP Router Discovery Protocol
- RFC 1112 IGMP
- RFC 2236 IGMP v2
- RFC 2362 PIM-SM
- PIM-DM v1
- DVMRP v3-07
- RFC 2336 IGMP v2
- MSDP
- RFC 2283 MBGP

General Routing Protocols

- RFC 791 IP
- RFC 792 ICMP
- RFC 793 TCP
- RFC 783 TFTP
- RFC 826 ARP
- RFC 768 UDP
- RFC 894 IP over Ethernet
- RFC 903 RARP
- RFC 906 TFTP Bootstrap
- RFC 1027 Proxy ARP

DATASHEET

FASTIRON 3208RGC

- RFC 854 TELNET
- RFC 951 BootP
- RFC 1122 Host Requirements
- RFC 1256 IRDP
- RFC 1519 CIDR
- RFC 1542 BootP Extensions
- RFC 1591 DNS (client)
- RFC 1619 PPP over SONET
- RFC 1662 PPP in HDLC-like Framing
- RFC 1812 General Routing
- RFC 1541 and 1542 DHCP
- RFC 2131 BootP/DHCP Helper
- RFC 2338 VRRP

Others

- RFC1354 IP Forwarding MIB
- RFC 1757 RMON Groups 1,2,3,9
- RFC 2068 HTTP
- RFC 2030 SNTP
- RFC 2138 RADIUS
- RFC 3176 sFlow

Network Management

- IronView Network Manager (INM) Web based graphical user interface
- Integrated Standard based Command Line Interface (CLI)
- sFlow (RFC 3176)
- Telnet
- SNMP
- RMON
- HP OpenView for Sun Solaris, HP-UX, IBM's AIX, and Windows NT Standalone Windows NT

Element Security Options

- AAA
- RADIUS
- Secure Shell (SSH v1)
- Secure Copy (SCP)
- TACACS/TACACS+
- Username/Password (Challenge and Response)
- Bi-level Access Mode (Standard and EXEC Level)
- Protection for Denial of Service attacks, such as TCP SYN or Smurf Attacks

Environmental

- Operating Temperature: 5 °C to 40 °C (41 °F to 104 °F)
- Relative Humidity: 5 to 80%, @40 °C (104 °F), non-condensing
- Storage Temperature: -40 ºto 70 ºC (-40 ºto 158 °F)
- Storage Altitude: 10,000 ft (3,000 m) maximum
- Storage Humidity: 95%maximum relative humidity, non-condensing

Safety Agency Approvals

- EN 60950 / IEC 950
- UL 1950
- CSA 950 Electromagnetic Emission Certification
- FCC Class A
- EN 55022 / CISPR-22 Class A; VCCI Class A

Immunity

- Generic: EN 50082-1
- ESD: IEC 61000-4-2; 4 kV CD,8 kV AD
- Radiated: IEC 61000-4-3; 3 V/m
- EFT/Burst: IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
- Conducted: IEC 61000-4-6; 3 V

Warranty

- 1-year hardware
- 90-day software

Mounting Options

- 19 "Universal E A (Telco) Rack Tabletop

FastIron System Power Specifications

	FastIron 3208RGC
Power Supply(s)	1
-70 to -40 VDC Consumption (Amps)	17A
100-120 VAC Consumption (Amps)	8A
200-240 VAC Consumption (Amps)	4A
AC frequency	47 – 63 Hz
Max BTUs (fully populated)	4552

DATASHEET

FASTIRON 3208RGC

FastIron System Physical Specifications

	FastIron 3208RGC
Dimensions	8.75"h x 17.5"w x 15"d (22.2 x 44.5 x 38.1 cm)
Weight (fully loaded)	60 lbs (29.9 kg)

Ordering Information

Part Number	Description
FI3208RGC	4-slot FastIron 400 Chassis with single JetCore–class redundant management module, single RPS3 power supply, 32-port 100/1000BaseTX (RJ45) Auto-sensing & 8-port mini GBIC slots with one open expansion slot
RPS3	90-220VAC Power Supply for FastIron 400 & FastIron 800
RPS3DC	48VDC Power Supply for FastIron 400 & FastIron 800
J-FxGMR4	8-port mini-GBIC based Gigabit management module - requires mini-GBICs
J-F48T	48-port 10/100BaseT RJ-21 Telco interface module
J-F16GC	16-port 100/1000BaseT interface module
J-FxG	8-port mini-GBIC based Gigabit interface module
J-F16Gx	16-port mini-GBIC based Gigabit interface module
F10Gx-SR	10 Gigabit Ethernet module with 850nm LAN Optics (up to 300 meters on MMF)
F10Gx-LR	10 Gigabit Ethernet module with 1310nm LAN Optics (up to 10 km on SMF)
F10Gx-ER	10 Gigabit Ethernet module with 1550nm LAN Optics (up to 40 km on SMF)
E1MG-SX	1000Base-SX mini-GBIC optic, MMF, LC connector
E1MTG-SX	1000Base-SX mini-GBIC optic, MMF, MTRJ connector
E1MG-LX	1000Base-LX mini-GBIC optic, SMF, LC connector
E1MG-LHA	1000Base-LHA mini-GBIC optic, SMF, LC connector

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