

BROCADE SERVERIRON GT C-SERIES



LAYER 4-7 APPLICATION SWITCHING

IP Application Acceleration, Web Optimization and Security

HIGHLIGHTS

- Purpose-built high-availability application switches for IP and Web services in an upgradeable 2RU platform with datacenter-class redundant power, removable fan, and hot-swappable modules
- Industry's most powerful content analysis engine, including HTTP, XML, FIX, DNS and SIP/VoIP, for advanced acceleration, security, optimization, and load balancing with ultra high availability and scalability with perimeter security devices including Firewalls and VPNs, as well as transparent global load balancing for datacenter redundancy
- Choice of on-demand upgradeable SSL service module and SSL integrated models for secure Web services with scalable performance up to 34,000 TPS, and 2 Gbit/sec encrypted throughput
- Server farm and application security with highly customizable Layer 4 and 7 policy enforcement, and superior DoS protection up to 1.2 million SYN/sec, against 30 DoS signatures

The innovative, highly compact and modular Brocade® ServerIron® GT C-Series switches provide high performance application switching and Web optimization, enabling highly secure and ultra high availability server and application infrastructure. These switches deliver the convenience and size of an appliance without sacrificing high availability, port expandability and performance upgradeability to accommodate growth in application traffic. The highly intelligent ServerIron application switches use information that resides beyond the traditional Layer 2 and 3 packet headers, deep in the application messages, to direct client transactions to appropriate servers. ServerIron GT C-Series switches maximize application availability and provide robust security by defeating many forms of DoS and application-level attacks. They act as a reliable last line of defense for critical servers and applications.

The ServerIron GT C-Series is a family of purpose-built high availability IP application and Web optimization switches for the data center and server farm infrastructure. These switches are built with the most innovative compact and modular design, which includes many key data center class redundancy and resiliency features. The ServerIron GT C-Series switches are the size of a PC appliance at 2 rack units in height, and feature three modular slots, hot-swappable redundant power supplies, field-replaceable fan unit, hot-swappable modules, redundant management modules, and future-proof expandability and performance upgradeability. These features, combined with superior application switching and Web acceleration performance in a compact 2U high modular platform, make these switches unique in the industry.



These switches are designed to minimize the initial cost of investment, and maximize the total return on investment with on-demand scalability, expandability and upgradeability. The ServerIron GT C-Series family features models with fully integrated SSL acceleration for secure Web services. Customers can optionally add SSL acceleration on demand to a ServerIron GT C-Series switch through a service module for scalable application switching and acceleration performance. Additionally, customers can expand port density for Gigabit and 10-Gigabit Ethernet connectivity, and upgrade performance by adding a second active management module or by installing a higher performance management module.

The ServerIron GT C-Series switches can help meet current infrastructure requirements, and scale to meet evolving application demands without forklift upgrades in the future. By providing maximum availability, security and scalability to the network and application

infrastructure, the ServerIron GT C-Series switches maximize the Return on Investment (ROI) on the servers and applications. The switches also simplify server farm management, which reduces operational costs and keeps the total cost of ownership (TCO) to a minimum.

The ServerIron GT C-Series features a choice of models with SSL acceleration and port configuration choices to meet a full range of price, performance, feature and port configuration needs of Enterprise and Service Provider customers. Based on highly-advanced multi-processor technology, all the ServerIron GT C-Series models feature management modules with one dedicated processor for reliable device management and control, and one processor for handling application traffic.

SERVERIRON GT C-SERIES (SSL UPGRADEABLE)

- **ServerIron GT CGx2:** Two Gigabit port switch with an application switch management module

- **ServerIron GT CGC16:** Sixteen-port 100/1000 Mbps Copper switch with an application switch management module
- **ServerIron GT C2404CF:** Twenty-four 10/100 Mbps and four Gigabit Ethernet (copper and fiber combination) switch with an application switch management module

SERVERIRON GT C-SERIES SSL (PRE-EQUIPPED WITH SSL)

- **ServerIron GT CGx2-SSL:** Two Gigabit port switch with an integrated SSL application switch management module
- **ServerIron GT CGC16-SSL:** Sixteen-port 100/1000 Mbps Copper switch with an integrated SSL application switch management module
- **ServerIron GT C2404CF-SSL:** Twenty-four port 100 Mbps and four Gigabit Ethernet (copper and fiber combination) switch with an integrated SSL application switch management module

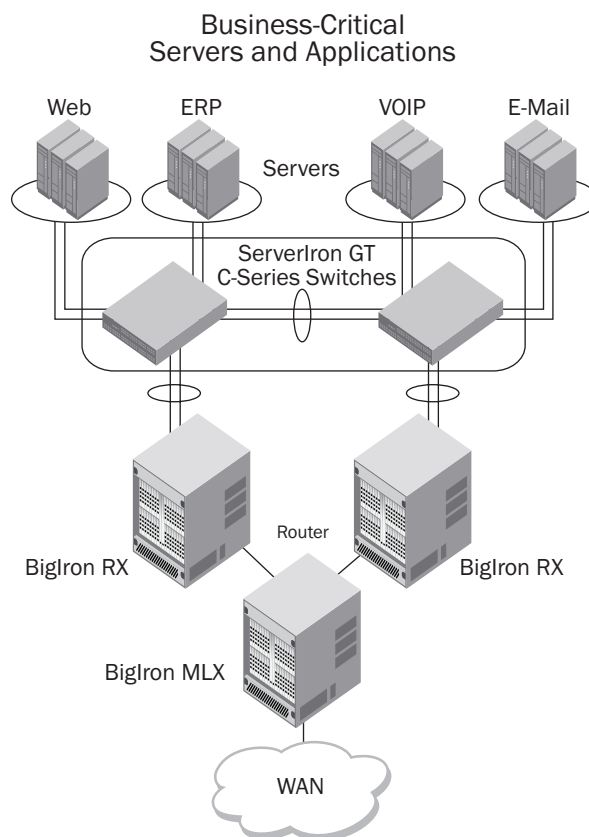
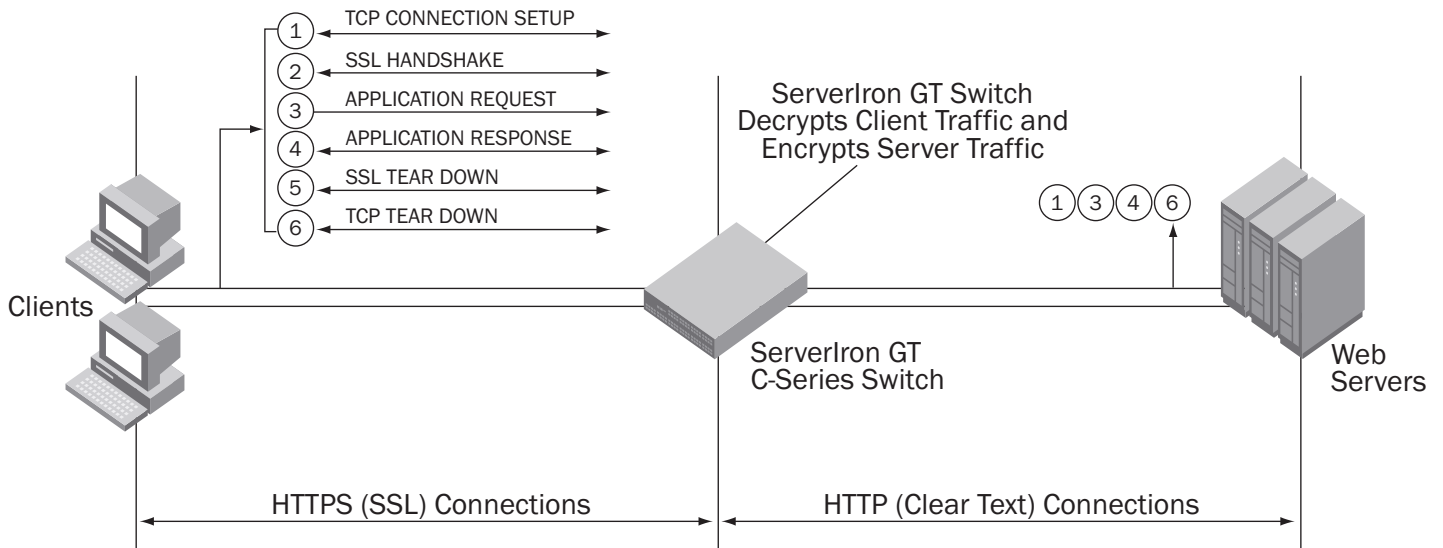


Figure 1. ServerIron GT C-Series for High Availability and High Performance IP and Web Services.

Figure 2.
ServerIron GT C-Series for SSL Acceleration.



The ServerIron GT C-Series switches are built on innovative and field-proven switching architecture, and run the highly intelligent TrafficWorks operating system featuring the most advanced application intelligence, superior performance and robust application security. They help improve availability, scalability and security of business-critical application infrastructure. These switches provide support for a comprehensive set of load balancing methods, and highly intelligent content inspection and switching for many content types, including URL, HTTP header, XML, SIP/VoIP, cookie and SSL ID. With advanced protection against Denial of Service (DoS) attacks, viruses and worms, these switches act as the last line of defense for the most critical data center infrastructure. Support for sophisticated policy-based load balancing helps mitigate the threat of SPAM in Enterprise and Service Provider networks. The Brocade JetCore™ ASIC technology supports hardware assisted standards-based sFlow network monitoring for all application traffic flows, which increases manageability and security of network and server resources.

Furthermore, the ServerIron GT C-Series switches provide the foundation for high service availability, disaster recovery, and location and server transparency for consistent user experience. With support for extensive service health check capability to monitor Layer 2, Layer 3, Layer 4, and Layer 7 connectivity and services, the switches determine the servers' ability to respond to user requests and deliver optimized performance and rapid failover to available resources during failures. The health check mechanisms ensure detection of service problems in real time and rapidly re-direct client requests to other available servers. To provide ultra high service availability, the switches support many advanced options with real-time session synchronization between the devices to protect against session loss upon switch failures. In the event that one device fails, the other one takes over traffic flows without losing existing end-user sessions or connectivity.

Web application proliferation and an increasing need for securing Web transactions is driving the growth in SSL-enabled Web delivery. Secure Web transactions add tremendous processing overhead to servers, which degrades server performance, response time and server capacity. The ServerIron GT C-Series SSL switches offer an ideal solution for high availability SSL acceleration and application traffic management for Web services. These switches offload SSL processing from servers and centralize certificate management for added security and simplified operations (See Figure 2).

The ServerIron GT C-Series SSL switches terminate all SSL connections, and decrypt traffic prior to sending it towards the servers. The switches convert SSL-encrypted requests into clear-text HTTP and forward to Web servers. Reply traffic from the servers is sent through the switch for encryption on the way back to the client. Because the SSL traffic is converted to visible clear text in the network, security filters and policies at Layer 7 may be applied to this traffic for added security.

SERVERIRON GT C-SERIES PLATFORM BENEFITS

- **Compact and Modular Design:** Compact 2U high design with three modular slots for expansion and upgradeability
- **Redundant Power Supplies:** Support for redundant and hot-swappable power supplies, and field replaceable fan tray
- **Hot-Swappable Modules:** Hot-swappable modules, and one empty slot (CGx2 and CGC16 models) for management and line modules to increase performance and port density
- **Dual-Management Modules:** Optional second management module for redundancy and performance upgradeability
- **Pre-Equipped and Upgradeable Integrated SSL Acceleration Options:** Choice of scalable SSL acceleration performance
- **Design Flexibility:** Supports many different topology designs including one-arm, in-line, DSR, and direct attached servers
- **Security:** Wire-speed ACL and sFlow network monitoring combined with highly secure embedded real-time OS
- **Reliability:** Resilient switching and routing foundation with highly reliable embedded real-time OS
- **Scalability:** Expansion to support up to 32 Gigabit ports and 10-Gigabit application switching
- **Flexible Connectivity:** Copper and fiber gigabit media options, and support for high-density Gigabit over Copper
- **Investment Protection:** A modular platform to meet current and future feature, performance and scalability needs

SERVERIRON GT C-SERIES SWITCHES SUPPORT THE FOLLOWING TRAFFIC MANAGEMENT APPLICATIONS:

- **Efficient Server Load Balancing (SLB):** Transparently distribute IP-based services and balance traffic among multiple servers while monitoring server and application health to enable high availability applications.
- **SSL Acceleration:** Acceleration of SSL connections by offloading servers from SSL processing. Investment protection in ServerIron GT switches with on-demand SSL acceleration upgrade with service module.
- **Intelligent Application Content Inspection and Switching:** Avoid replicating application content and functions on all servers, and scale and optimize performance for targeted application needs. Defeat application level attacks by using deep content inspection and filtering of application messages.
- **Centralized SSL Certificate Management:** Provides added security and easy manageability for SSL certificates, and offers cost savings by avoiding purchase of multiple certificates.
- **End-to-End SSL Support:** For high-security applications, SSL-enabled switches terminate SSL, inspect and filter content, and re-encrypt to the back-end servers for total security and confidentiality through the network.
- **Disaster Recovery and Global Server Load Balancing (GSLB):** Distribute services transparently across multiple sites and server farm locations and balance the traffic across those sites/servers on a global basis while monitoring site/server and application health. By directing the client to the best site for the fastest content delivery, ServerIron enhances overall application availability and reduces bandwidth costs. Site level redundancy and rapid transparent failover are supported for disaster recovery.
- **Robust Application Security:** Shield server farms and applications from wire-speed multi-Gigabit rate DoS, DDoS, virus and worm attacks while serving legitimate application traffic.
- **Enterprise Application Support:** Broad support and custom features for many popular applications like Oracle, BEA WebLogic, IBM WebSphere, PeopleSoft, Microsoft LCS/AD/WTS and Seibel.
- **Server Connection Offload:** Increases server performance, availability, response time and security by offloading connection management from the Web servers. Connection offload allows the servers to focus on mission-critical high-performance application content delivery.
- **Application Rate Limiting:** Protects server farms by controlling the rate of TCP and UDP connections on an application port basis. Protects servers against malicious attacks from high-bandwidth users by rate limiting individual user connections.
- **High Performance Access Control:** Using Access Control Lists (ACLs) and Extended ACLs, network administrators can restrict access to specific applications from a given address or subnet.
- **Application Redirection:** ServerIron can also use HTTP redirect to send traffic to remote servers if the requested application is not available on the local server farm. Clients are transparent to unavailable local resources.
- **High Availability Application Switching:** When deployed in active-standby mode, the standby ServerIron will assume control and preserve the state of existing sessions in the event the primary load-balancing device fails. In active-active mode, both ServerIron switches work simultaneously and provide a backup for each other while supporting stateful fail-over.
- **Advanced Firewall and Security Device Load Balancing:** Increase firewall and perimeter security device performance by distributing Internet traffic across multiple firewalls and other perimeter security appliances. Overcome scalability limitations, increase throughput and performance, and improve resiliency by eliminating the perimeter security devices as "single points of failure."

KEY SERVERIRON BENEFITS

Improved Application Performance

ServerIron switches, with their intelligent application-aware load balancing and content switching, significantly improve application performance by optimally utilizing all available server resources. Brocade switches perform highly flexible real-time health checks to the servers, and distribute load efficiently to the best servers. Intelligent content switching maximizes utilization and performance by eliminating the need to replicate content and application functions on all the servers.

Maximum Application Availability

ServerIron switches provide maximum availability to applications by intelligently distributing traffic among available servers, and dynamically monitoring the ability of servers to deliver optimal performance. Using customizable health checks, the switches transparently react in real time to server farm problems by redistributing client traffic. ServerIron switches can be deployed in multiple high-availability modes with hitless and stateful session synchronization and failover to extend high availability of applications even through switch failures.

Secure Web Performance and Manageability

The ServerIron GT C-Series SSL switches eliminate the burden of SSL processing from servers, and ensure server capacity is dedicated for application processing. By terminating SSL connections using efficient hardware-assisted processor technologies, the switches optimize end-user response time and performance for secure Web transactions. With support for centralized certificate management and consolidation of certificates, the ServerIron GT switches optimize cost of purchasing and managing certificates.

Robust Application and Server Farm Security

With the application and content intelligence built in, ServerIron switches detect and discard viruses and worms that spread through application level messages. Legitimate application traffic is load balanced at high performance while preventing and defeating attacks. Industry leading ServerIron switches reliably protect against many forms of DoS and Distributed DoS (DDoS) attacks up to 1.2 million attack packets per second.

Massive Application and Server Farm Scalability

Scaling applications and server farms is essential to accommodate growth, and is cost-effectively met by the ServerIron application switches. These switches provide virtually unlimited scalability to IP-based applications by allowing the use of multiple servers with load balancing and failover. There is no need for forklift upgrades to the server farms and disruption to applications.

High Return on Investment (ROI)

ServerIron application switches provide quick ROI, and also improve the ROI of application and server infrastructure. They support significantly higher application traffic and users on existing infrastructure by maximizing the utilization of installed server resources. With support for the "Server Connection Offload" feature, the ServerIron solution reduces connection management overhead on the servers and dedicates server resources to application processing, which improves overall performance and capacity of the server farms. On-demand and unlimited virtual server farm scalability eliminates the need for forklift upgrades, and dramatically improves the ROI of the server infrastructure.

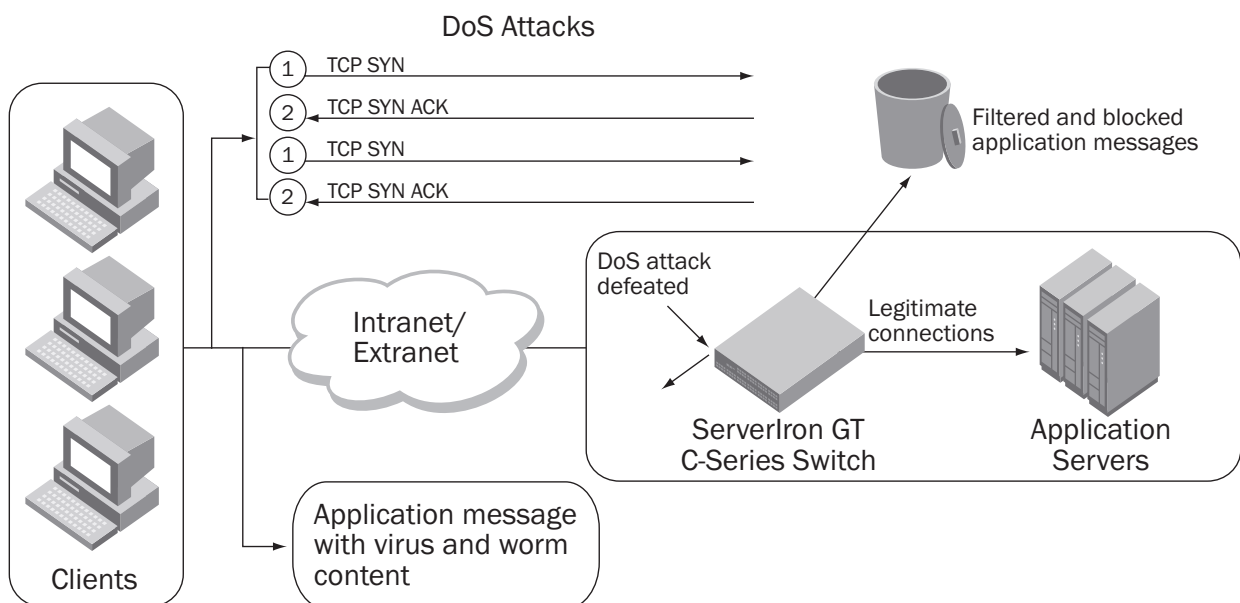


Figure 3. Securing the Server Farms and Applications from High-Speed Malicious Attacks.

ORDERING INFORMATION

ServerIron GT C-Series Base Platforms^{1, 2}

Part Number	Description
SI-GT-CGx2	3-slot 2U high chassis equipped with WSM6-1 (Web Switching Management Module), one AC Power Supply and 2-port Gigabit JetCore Line Module
SI-GT-C2404CF	3-slot 2U high chassis equipped with WSM6-1 (Web Switching Management Module), one AC Power Supply, and 24-port 10/100 and 4-port Gigabit (copper and fiber combo) JetCore Line Module
SI-GT-CGC16	3-slot 2U high chassis equipped with WSM6-1 (Web Switching Management Module), one AC Power Supply and 16-port 100/1000 Mbps Copper JetCore Line Module
SI-GT-CGx2-SSL	3-slot 2U high chassis equipped with WSM6-SSL-1 (integrated SSL acceleration), one AC power supply, and 2-port Gigabit JetCore line module
SI-GT-C2404CF-SSL	3-slot 2U high chassis equipped with WSM6-SSL-1 (integrated SSL acceleration), one AC Power Supply, and 24-port 10/100 Mbps and 4-port Gigabit (copper and fiber combo) JetCore Line Module
SI-GT-CGC16-SSL	3-slot 2U high chassis equipped with WSM6-SSL-1 (integrated SSL acceleration), one AC Power Supply, and 16-port 100/1000 Mbps Copper JetCore Line Module

ServerIron GT C-Series Line Module Options

SI-GT-EGx4P	4-slot chassis equipped with WSM6-2 (Web Switching Management Module), one AC Power Supply and 4-Port Gigabit JetCore Line Module
SI-GT-E2404CFP	4-slot chassis equipped with WSM6-2 (Web Switching Management Module), one AC Power Supply and 24-port 10/100 and 4-port Gigabit (copper and fiber combo) JetCore Line Module
SI-GT-EGC16P	4-slot chassis equipped with WSM6-2 (Web Switching Management Module), one AC Power Supply and 16-port 100/1000 Copper JetCore Line Module

ServerIron GT E-Series 10 Gigabit Platforms

SI-GT-E10Gx2	4-slot chassis equipped with WSM6 (Web Switching Management Module), one AC Power Supply and 2-Port 10 Gigabit Line Module (Optics Required)
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ServerIron GT E-Series Line Module Expansion Options

B10Gx1	1-port 10 Gigabit Ethernet Base Module (optics required)
B10Gx2	2-port 10 Gigabit Ethernet Base Module (optics required)
J-B24FX	24-port 100Base-FX JetCore line Module
J-B2404CF	24-port 10/100Base-TX (RJ45) and 4-port Gigabit (copper and fiber combo) double-wide JetCore line Module
J-B48E	48-port 10/100Base-TX (RJ45) double-wide JetCore line Module
J-BxG	8-port 1000Base-X (mini-GBIC) JetCore line Module
J-B16GC	16-port 100/1000Base-T (RJ45) JetCore line Module
J-B2Gx	2-port 1000Base-X (mini-GBIC) JetCore line Module
J-B4Gx	4-port 1000Base-X (mini-GBIC) JetCore line Module
J-B16Gx	16-port 1000Base-X (mini-GBIC) JetCore line Module

ServerIron GT E-Series System Options

WSM6-1	Web Switch Management Module (WSMM) II with one application traffic processor and one management processor. Use this to order replacement or for inventory of a backup.
WSM6-2	Web Switch Management Module (WSMM) II with two application traffic processors and one management processor. Use this to order replacement or for inventory of a backup.
WSM6	Web Switch Management Module (WSMM) II with three application traffic processors and one management processor. Use this to order replacement or for inventory of a backup.

ServerIron GT E-Series Mini GBIC Options

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
E1MG-LHB	1000Base-LHB mini-GBIC optic, SMF, LC connector, 150km Maximum reach
E1MG-TX	1000BASE-TX Mini-GBIC Copper, RJ-45 Connector

ServerIron GT E-Series 10 Gigabit Optics

10G-XNPK-SR	850nm serial XENPAK plug-in transceiver (SC), target range of 300m over MMF
10G-XNPK-LR	1310nm serial plugable XENPAK optic only (SC) for up to 10km over SMF
10G-XNPK-ER	1550nm serial plugable XENPAK optic only (SC) for up to 40km over SMF

ServerIron GT E-Series Premium Software Upgrade

SI-GT-TW-PREM	ServerIron GT Premium TrafficWorks GSLB and Layer-3 Upgrade
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BROCADE SERVERIRON GT C-SERIES SPECIFICATIONS

Load Balancing Methods

- Least connections
- Response time
- Response time + least connections
- Round robin
- Weighted distribution
- Bandwidth and Weighted Bandwidth

Layer 2 Switching Capabilities

- 32,000 MAC addresses
- 802.1d Spanning Tree Protocol
- 802.1p prioritization
- Policy-based VLANs
- Port-based VLANs
- Layer 3 protocol VLANs
- Layer 3 protocol and subnet VLANs
- 802.1q VLAN tagging

Protocol Support

- | | | |
|---------------------------------|-------------------------------|--------------|
| • TCP | • SSL v2.0, 3.0, 3.1, TSL 1.0 | • TFTP |
| • SSL | • IMAP4 | • SNMP |
| • FTP | • LDAP | • VRRP/VRRPe |
| • Telnet | • NNTP | • IPSec |
| • SMTP | • POP3 | • RADIUS |
| • HTTP (1.0 and 1.1) | • DNS | • VoIP |
| • HTTPS | • BootP | • SIP |
| • WTS (Windows Terminal Server) | | |

SSL Encryption Algorithms

- | | |
|--------------------------|---|
| SSL v2.0 | <ul style="list-style-type: none">• SSL_CK_RC4_128_WITH_MD5 ARC4-MD5• SSL_CK_RC4_128_EXPORT40_WITH_MD5 EXP-ARC4-MD5• SSL_CK_RC2_128_CBC_WITH_MD5 AR C2-MD5• SSL_CK_RC2_128_CBC_EXPORT40_WITH_MD5 EXP-ARC2-MD5• SSL_CK_DES_64_CBC_WITH_MD5 DES-CBC-MD5• SSL_CK_DES_192_EDE3_CBC_WITH_MD5 DES-CBC3-MD5 |
| SSL v3.0/3.1 and TLS 1.0 | <ul style="list-style-type: none">• AES256-SHA• AES128-SHA• EXP1024-RC4-SHA• EXP1024-DES-CBC-SHA• EXP1024-RC4-MD5• DES-CBC3-SHA• DES-CBC-SHA• EXP-DES-CBC-SHA• EXP-RC4-MD5• RC4-SHA• RC4-MD5 |

Standards Compliance

- 802.3, 10BaseT
- 802.3u 100BaseTX, 100BaseFX
- 802.3z 1000BaseSX
- 802.3z 1000BaseLX
- 802.1qVLAN Tagging
- 802.1d Bridging
- 802.1w RSTP
- 802.1ad Link Aggregation
- 802.3 Ethernet Like MIB
- Repeater MIB
- Ethernet Interface MIB
- SNMPV2C
- SNMP MIB II

Network Management

- | | |
|---------------------------|----------------------------------|
| • Integrated Command Line | • SNMP |
| • Interface | • RMON |
| • SSH | • IronView Network Manager (INM) |
| • Web-based GUI | • HP OpenView |
| • Telnet | |

Safety Agency Approvals

- EN 60950/EN 60825/IEC 950
- UL 1950—CSA 950 Electromagnetic Emission Certification
- FCC Class A—EN 55022/CISPR-22 Class A/VCCI Class A
- CE Mark

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

Environmental

- Operating Temperature: 0 °C to 40 °C (32 °F to 104 °F)
- Relative Humidity: 5 to 90% @ 40 °C (104 °F), non-condensing
- Operating Altitude: 10,000 ft (3,000 m) maximum
- Storage Temperature: -25 °C to 70 °C (-9 °F to 158 °F)
- Storage Altitude: 15,000 ft (4,500 m) maximum
- Storage Humidity: 95% maximum relative humidity, non-condensing

Mounting Options

- 19" Universal EIA (Telco) Rack
- Tabletop

BROCADE SERVERIRON GT C-SERIES SPECIFICATIONS CONTINUED

Platform	ServerIron GT CGx2	ServerIron GT CGx2-SSL	ServerIron GT C2404CF	ServerIron GT C2404CF-SSL	ServerIron GT CGC16	ServerIron GT CGC16-SSL
Concurrent Sessions	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000
L4 Connections/Sec	50,000	50,000	50,000	50,000	50,000	50,000
DoS Protection (SYN/Sec)	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
Application Throughput	2 Gbps	2 Gbps	2 Gbps	2 Gbps	2 Gbps	2 Gbps
SSL Transactions/Sec	N/A	8,500	N/A	8,500	N/A	8,500
SSL Throughput	N/A	500 Mbps	N/A	500 Mbps	N/A	500 Mbps
SSL Concurrent Sessions	N/A	16,000	N/A	16,000	N/A	16,000
Pre-Equipped Ports						
10/100 Ethernet	N/A		24		N/A	
Gigabit	2		4 (C and F)		16	
Total	2		28		16	
Maximum Ports (Expandability)						
10/100	N/A		24		N/A	
Gigabit	18		4		32	
Total	18		28		32	
Layer 3 switching capabilities	OSPF, RIPv2, VRRP, VRRP-E, Supports servers on different subnets from that of Virtual IP address					
Physical Dimensions	3.46"H x 17.45"W x 22.63"D (8.78cm x 44.32cm x 57.48cm)					
Weight	40 lbs fully loaded (18.2 kg)					
Power Requirements	3-slot Chassis with Single (1) Power Supply: Input Voltage and Current Power Supply Rating -70 to -40 VDC: 17A 100 to 120 VAC (auto-ranging): 8A 200 to 240 VAC (auto-ranging): 4A AC line frequency: 47-63 Hz					

WARRANTY

- 1 year hardware
- 90 days software
- Upgrades to higher levels available

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