



BIG-IP 8800



Key Benefits

Industry-best application performance (per second):

- 10 Gbps of Layer 4
- 8 Gbps of Layer 7
- 6 Gbps of SSL
- 6 Gbps of Compression
- 48,000 SSL TPS

Connection Flexibility – 10-Gigabit fiber connections support the latest generation of high performance switches and routers, providing up to 10 Gbps of traffic flow.

Device Consolidation – Consolidates multiple devices in high-traffic networks to a single pair of devices for easier management and better cost efficiency.

Maximum SSL & Compression Processing – Delivers the highest levels of SSL and compression performance available on the market today.

Future Proofs the Network – All Gigabit architecture with Gigabit Copper Ethernet, Gigabit Fiber Ethernet, and 10-Gigabit Fiber Ethernet prepares your network for the future, handling the increasing demand for applications while leveraging the ever increasing power of servers.

BIG-IP 8800 Application Switch

The Fastest 10 Gbps Application Delivery Platform Available

Industry Best Performance

Clustered multiprocessing enables the BIG-IP 8800 to deliver the highest levels of Layer 7 and SSL throughput, SSL transactions per second and compression performance over any other product in the market. The BIG-IP 8800 utilizes symmetric multiprocessing across four processor cores. This technology allows BIG-IP performance to scale to four times the level of a single processor system.

Apart from the main processing cores, the 8800 includes a Packet Velocity ASIC (PVA 10) that delivers high volume, line speed, and L4 and DoS processing in a custom developed integrated circuit, enabling the BIG-IP 8800 to achieve industry best L4 and L7 performance with integrated DoS attack protection.

Scalability to Support Data Center Consolidation

The BIG-IP 8800 Application Switch outperforms every other product on the market, supporting 10 Gbps of traffic throughput and providing a flexible platform that can scale to meet next-generation data center design.

Best-In-Market SSL Processing

The BIG-IP 8800 includes SSL hardware acceleration to offload costly SSL encryption. By accelerating key exchange and bulk encryption, the platform provides best-in-market SSL performance capable of scaling up to 6 Gbps throughput and over 48,000 TPS.

Offloads Server Processing of Compression

F5's optional HTTP Compression license enables you to cost effectively offload traffic compression processing from your servers. This greatly improves page load times and reduces bandwidth utilization while scaling up to 6 Gbps throughput. The 8800 platform's new compression hardware delivers software level compression ratios but at blazing throughput levels that only dedicated hardware can achieve.

10-Gigabit Ethernet Connections

A new type of fiber connection (XFP 10 Gbps Optical) for networks supports a full 10 Gigabit of duplex traffic over a single interface.

Reduced Cost of Ownership

Hot-swappable components reduce downtime and lower TCO with hot-swappable fans and an accessible compact flash and hard drive. Remote management, multi-boot support, USB support, and simplified installation with superior management capabilities improve availability.

Integrated Architecture

At the heart of the BIG-IP 8800 is the TMOS architecture, an intelligent, modular, and scalable foundation for quickly adapting to future business challenges and streamlining management tasks. TMOS enhances every function riding on top of the BIG-IP 8800, making it easy to upgrade with software add-on modules to meet your diverse and evolving distributed application goals.

TMOS Architecture Performance Breakthrough

Industry-first symmetric multi-processor, multi-core support allows the clustering of processors so that workload can be spread evenly among them. This improves performance across all functions (TPS, iRules, monitors, SSL, Compression, etc.) through the dynamic sharing of processors while evenly distributing workloads in real-time.

Physical Specifications



BIG-IP 8800 Series

Processor: Dual CPU, Dual Core (4 processors)

Base Memory: 4 GB

ASIC: Packet Velocity ASIC 10

Gigabit Ethernet CU Ports: 12 (Copper or Fiber)

10-Gigabit Fiber Ports: 2 (XFP pluggable optics)

Included SSL TPS/Max TPS/Bulk Crypto: 100/48,000/6 Gbps

Traffic Throughput: 10 Gbps - L4; 8 Gbps - L7

Hardware Compression 6 Gbps

Dimensions:

3.5"H x 17.25"W x 23.75"D (per unit) 2U industry standard rack-mount chassis; designed for IEC standards supporting 19" rackmounted equipment

Weight: 43 lbs. (dual power)

Operating Temperature:

41° to 104° F (5° to 40° C) per Telcordia GR-63-CORE 5.1.1 and 5.1.2

Relative Humidity:

10 to 90% @ 40° C, per Telcordia GR-63-CORE 5.1.1 and 5.1.2

Safety Agency Approval:

UL 60950-1-2002

CSA-C22.2 No. 60950-1-03

CB TEST CERTIFICATION TO IEC 950, EN 60950

Electromagnetic Emissions Certifications/Susceptibility Standard:

EN55022: 1998: + A1: 2000+A2: 2003

EN6100-3-2: 2000 and

EN6100-3-3: 195+A1: 2000

EN55024: 1998+A1: 2001+A2: 2003 Class A

FCC Part 15B Class A

Maximum Power Consumption: 460 W

Maximum Heat Output: 1962 BTUs

Input Voltage:

90-240VAC +/- 10%

30-72 VDC (optional)

90-132 9A

180-264 4A



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