BIG-IP Hardware: Application Switches

Deliver More Applications for More Users

BIG-IP Application Delivery Networking platforms can manage even the heaviest traffic loads at both layer 4 and layer 7. By merging high performance switching fabric, specialized hardware, and advanced software, F5 provides the power to make in-depth application decisions without introducing bottlenecks.

With the high performance you get from BIG-IP platforms, you can consolidate devices—saving management costs, electricity, space, and cooling—while still having room to grow.

Provides security, acceleration, and availability in one device
You can add modules to the base systems of all BIG-IP platforms to customize the application delivery features you need. One device can be built for server load balancing, global data center load balancing, web application firewall, HTTP acceleration, spam filtering, or WAN optimization. Many of the BIG-IP platforms support running these technologies at the same time, providing security, acceleration, and availability while only requiring the data to be processed once in one device.

Uses application servers more efficiently
SSL and compression put a large processing burden on application servers. BIG-IP platforms provide high performance SSL and compression capabilities to offload these tasks from the application servers. With these tasks centralized, the application servers can then dedicate more resources to serving the application. In addition, centralized SSL key management greatly reduces the cost of deploying and maintaining SSL encryption.

Secures your network
Incorporating a BIG-IP platform into your network instantly adds a layer of security. It is a default-deny device, meaning you must explicitly allow access to specific services, and it provides a full packet filter engine that can limit access in a very granular way. In addition, BIG-IP platforms have SYN cookie support to protect against denial of service (DoS) attacks. All BIG-IP platforms use SSH for secure command-line access and HTTPS web server for secure web GUI access.

Reduces your operating costs
Simple-to-manage hardware means less time spent on configuration, upgrades, and maintenance. All BIG-IP platforms feature out-of-band, always-on management, front-panel management, warm upgrades, remote boot, and USB support.

Maximizes uptime
With hot-swappable components, redundant power supplies, redundant fans, compact flash, multi-boot support, and lights-out management, BIG-IP platforms are designed to ensure that your applications are always available.

Integrates efficiently with your network
Flexible ports, DC power options, and front-to-back cooling ensure that BIG-IP platforms can be easily integrated into your existing infrastructure.

Evolves with your network and applications
At the heart of every BIG-IP device is a revolutionary architecture called TMOS™ that provides a unified system for optimal application delivery, giving you total vision, flexibility, and control across all services. TMOS empowers BIG-IP devices to intelligently adapt to the diverse and evolving requirements of applications and networks.
**BIG-IP is available on five different platforms:**

### 8800 Series
- **Processor:** Dual CPU, Dual Core (4 cores)
- **Memory:** 4 GB
- **ASIC:** Packet Velocity ASIC 10
- **Gigabit Ethernet 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
- **Max. Hardware Compression:** 6 Gbps
- **Dimensions:** 3.5”H x 17.25”W x 23.75”D (per unit); 2U
- **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
- **FCC Agency Approval:** UL 60950 (UL1950-3)
- **Power supply:** Dual power supplies included
- **Maximum Power Consumption:** 460 W
- **Input Voltage:** 90-246 VAC +/- 10%

### 8400 Series
- **Processor:** Dual CPU
- **Memory:** 4 GB
- **ASIC:** Packet Velocity ASIC 10
- **Gigabit Ethernet Ports:** 12 (Copper or Fiber)
- **10 Gigabit Fiber Ports:** 2 (XFP pluggable optics)
- **Included SSL TPS/Max TPS/Bulk Crypto:** 100/35,000/3 Gbps
- **Traffic Throughput:** 10 Gbps - L4
- **Available Hardware Options:** Hardware Compression 3 Gbps
- **FIPS Processing (7,000 TPS and 1 GB SSL Throughput)**
- **Dimensions:** 3.5”H x 17.25”W x 23.75”D (per unit); 2U
- **Weight:** 40 lbs. (single power), 43 lbs. (dual power)
- **Operating Temperature:** 32° to 104° F (0° to 40° C) per Telcordia GR-63-CORE 5.1.1 and 5.1.2
- **Relative Humidity:** 5 to 85% @ 40° C, per Telcordia GR-63-CORE 5.1.1 and 5.1.2
- **Safety Agency Approval:** UL 60950 (UL1950-3)
- **Certifications/Susceptibility Standards:** EN55022 1998 Class A
- **FCC Agency Approval:** UL 60950 (UL1950-3)
- **Power supply:** Dual power supplies included
- **Maximum Power Consumption:** 460 W
- **Input Voltage:** 90-246 VAC +/- 10%

### 6900 Series
- **Processor:** Dual CPU, Dual Core (4 cores)
- **Memory:** 8 GB
- **ASIC:** Packet Velocity ASIC 10
- **Gigabit Ethernet Ports:** 16
- **Gigabit Fiber Ports (SFP):** 8 LX, SX or Copper (4 SX included)
- **Included SSL TPS/Max TPS/Bulk Crypto:** 500/25,000/6 Gbps
- **Traffic Throughput:** 6 Gbps
- **Max. Hardware Compression:** 5 Gbps
- **Dimensions:** 3.5”H x 17.3”W x 21.4”D
- **Weight:** 45.5 lbs. (dual power)
- **Operating Temperature:** 32° to 104° F (0° to 40° C) per Telcordia GR-63-CORE 5.1.1 and 5.1.2
- **Relative Humidity:** 5 to 85% @ 40° C, per Telcordia GR-63-CORE 5.1.1 and 5.1.2
- **Safety Agency Approval:** UL 60950 (UL1950-3)
- **Certifications/Susceptibility Standards:** EN55022 1998 Class A
- **FCC Agency Approval:** UL 60950 (UL1950-3)
- **Power supply:** Dual power supplies included
- **Maximum Power Consumption:** 850 W
- **Maximum Heat Output:** 2900 BTUs
- **Input Voltage:** 90-246 VAC +/- 10% auto switching
## 3600 Series

**Processor:** Dual Core CPU  
**Memory:** 4 GB  
**Gigabit Ethernet CU Ports:** 8  
**Gigabit Fiber Ports (SFP):** 2 optional (LX, SX, or copper)  
**Included SSL TPS/Max TPS/Bulk Crypto:** 500/10,000/1.5 Gbps  
**Traffic Throughput:** 1.5 Gbps  
**Dimensions:** 1.75"H x 17"W x 21"D  
**Weight:** 20 lbs. (single power); 22 lbs. (dual power)  
**Operating Temperature:** 32° to 104° F (0° 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 (UL1950-3)  
CSA-C22.2 No. 60950-00 (Bi-national standard with UL 60950)  
CB TEST CERTIFICATION TO IEC 950, EN 60950

**Certifications/Susceptibility Standards:**  
EN55022 1998 Class A  
EN55024 1998 Class A  
FCC Part 15B Class A  
VCCI Class A  

**Power Supply:**  
Dual-power capable; ships with 1 by default  
**Typical Power Consumption:** 165 W  
**Maximum Power Consumption:** 300 W  
**Maximum Heat Output:** 562 BTUs  
**Input Voltage:**  
90-240 VAC +/- 10% auto switching  
90-132 6A  
180-264 3A  
40-72 VDC (optional)

## 1600 Series

**Processor:** Dual Core CPU  
**Memory:** 4 GB  
**Gigabit Ethernet CU Ports:** 4  
**Gigabit Fiber Ports (SFP):** 2 optional (LX, SX, or copper)  
**Included SSL TPS/Max TPS/Bulk Crypto:** 500/5,000/750 Mbps  
**Traffic Throughput:** 750 Mbps  
**Dimensions:** 1.75"H x 17"W x 21"D  
**Weight:** 20 lbs. (single power); 22 lbs. (dual power)  
**Operating Temperature:** 32° to 104° F (0° 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 (UL1950-3)  
CSA-C22.2 No. 60950-00 (Bi-national standard with UL 60950)  
CB TEST CERTIFICATION TO IEC 950, EN 60950

**Certifications/Susceptibility Standards:**  
EN55022 1998 Class A  
EN55024 1998 Class A  
FCC Part 15B Class A  
VCCI Class A  

**Power Supply:**  
Dual-power capable; ships with 1 by default  
**Typical Power Consumption:** 150 W  
**Maximum Power Consumption:** 300 W  
**Maximum Heat Output:** 512 BTUs  
**Input Voltage:**  
90-240 VAC +/- 10% auto switching  
90-132 6A  
180-264 3A  
40-72 VDC (optional)

All specifications are subject to change without notice.