BIG-IP System

HARDWARE DATASHEET

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 flexibility 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—and still have room to grow.

Key benefits

Consolidate your infrastructure with purpose-built hardware

BIG-IP hardware platforms are designed specifically for application delivery. One device can be configured for server load balancing, global data center load balancing, web application firewall, HTTP acceleration, spam filtering, and WAN optimization.

Offload application servers

BIG-IP systems feature high-performance SSL and compression hardware as well as advanced connection management to remove processing-intensive tasks from application servers and use these resources more efficiently.

Secure your network

Instantly add a layer of security with BIG-IP systems, providing default deny security and a full packet filter engine that can limit access in a very granular way.

Reduce your operating costs

Spend less time on configuration, upgrades, and maintenance with the simple-to-manage BIG-IP hardware, featuring out-of-band management, front-panel management, warm upgrades, remote boot, and USB support.

Maximize uptime

Ensure your critical infrastructure is built on reliable hardware with hot-swappable components, redundant power supplies, redundant fans, compact flash, multi-boot support, and always-on management.

BIG-IP System

11050

11000

8950

Specifications	11050	11000	8950/8950S
Traffic Throughput:	42 Gbps	24 Gbps	20 Gbps
Hardware SSL:	Included: 500 TPS Maximum: 100,000 TPS (1K keys), 20,000 TPS (2K keys), 15 Gbps bulk encryption*	Included: 500 TPS Maximum: 100,000 TPS (1K keys), 20,000 TPS (2K keys) 15 Gbps bulk encryption*	Included: 500 TPS Maximum for 8950: 56,000 TPS (1K keys), 10,000 TPS (2K keys) Maximum for 8950S: 100,000 TPS (1K keys), 20,000 TPS (2K keys) 9.6 Gbps bulk encryption*
FIPS SSL:	FIPS 140-2 Level 2 (option) 50,000 TPS (1K keys), 9,000 TPS (2K keys)	FIPS 140-2 Level 2 (option) 50,000 TPS (1K keys), 9,000 TPS (2K keys)	N/A
Hardware Compression:	N/A	Included: 50 Mbps Maximum: 16 Gbps	N/A
Software Compression:	Included: 50 Mbps Maximum: 12 Gbps	N/A	Included: 50 Mbps Maximum: 8 Gbps
Software Architecture:	64-bit TMOS	64-bit TMOS	64-bit TMOS
Processor:	Dual CPU, Hex Core (12 processors)	Dual CPU, Hex Core (12 processors)	Dual CPU, Quad Core (8 processors)
Memory:	32 GB	48 GB	16 GB
Hard Drive:	Two 600 GB drives, 10,000 RPM (RAID 1)	Two 600 GB drives, 10,000 RPM (RAID 1); Optional 4x 300 GB or 600 GB SSD	Two 320 GB drives (RAID 1)
Gigabit Ethernet CU Ports:	N/A	Optional SFP	16
Gigabit Fiber Ports (SFP):	N/A	Optional SFP	8 LX; SX or copper (4 SX included)
10 Gigabit Fiber Ports (SFP+):	10 SR (2 included)	10 SR (2 included)	2 SR (sold separately)
Power Supply:	Dual 850W included	Dual 850W included	Dual 850W included
Typical Consumption:	440W (Dual A/C power - 110V input)	440W (Dual A/C power - 110V input)	419W (Dual A/C power - 110V input)
Input Voltage:	90-240 VAC +/- 10% auto switching, 50/60 hz	90-240 VAC +/- 10% auto switching, 50/60 hz	90-240 VAC +/- 10% auto switching, 50/60 hz
Typical Heat Output:	1501 BTU/hour (110V input)	1501 BTU/hour (110V input)	1431 BTU/hour (110V input)
Dimensions:	5.2" H x 17.4" W x 21.4" D 3U industry standard rack-mount chassis	5.2" H x 17.4" W x 21.4" D 3U industry standard rack-mount chassis	3.5" H x 17.75" W x 20.75" D 2U industry standard rack-mount chassis
Weight:	52 lbs. (dual power supply)	52 lbs. (dual power supply)	52 lbs. (dual power supply)
Operating Temperature:	32° to 104° F (0° to 40° C)	32° to 104° F (0° to 40° C)	32° to 104° F (0° to 40° C)
Relative Humidity:	5 to 85% at 104° F (40° C)	5 to 85% at 104° F (40° C)	5 to 85% at 104° F (40° C)
Safety Agency Approval:	UL 60950-1:2001, 1st edition CSA C22.2 No. 60950-1-03 IEC 60950-1: 2005, 2nd edition EN 60950-1: 2005, 2nd edition	UL 60950-1:2001, 1st edition CSA C22.2 No. 60950-1-03 IEC 60950-1: 2005, 2nd edition EN 60950-1: 2005, 2nd edition	UL 60950-1:2001, 1st edition CSA C22.2 No. 60950-1-03 IEC 60950-1: 2005, 2nd edition EN 60950-1: 2005, 2nd edition
Certifications/ Susceptibility Standards:	EN 55022:2006 + C1:2006 EN 55024:1998 +A1: 2001 +A2:2003 FCC Part 15B Class A VCCI Class A NEBS compliant (option)	EN 55022:2006 + C1:2006 EN 55024:1998 +A1: 2001 +A2:2003 FCC Part 15B Class A VCCI Class A	EN 55022:2006 + C1:2006 EN 55024:1998 +A1: 2001 +A2:2003 FCC Part 15B Class A VCCI Class A

*Maximum throughput.

8900

6900

3900

Specifications	8900	6900/6900S	3900
Traffic Throughput:	12 Gbps	6 Gbps	4 Gbps
Hardware SSL:	Included: 500 TPS Maximum: 58,000 TPS (1K keys), 10,000 TPS (2K keys), 9.6 Gbps bulk encryption*	Included: 500 TPS Maximum for 6900: 25,000 TPS (1K keys), 5,000 TPS (2K keys), Maximum for 6900S: 40,000 TPS (1K keys), 10,000 TPS (2K keys) 4 Gbps bulk encryption*	Included: 500 TPS Maximum: 15,000 TPS (1K keys), 3,000 TPS (2K keys), 2.4 Gbps bulk encryption*
FIPS SSL:	FIPS 140-2 Level 2 (option) 20,000 TPS (1K keys), 4,000 TPS (2K keys)	FIPS 140-2 Level 2 (option) 20,000 TPS (1K keys), 4,000 TPS (2K keys)	N/A
Hardware Compression:	Included: 50 Mbps Maximum: 8 Gbps	Included: 50 Mbps Maximum: 5 Gbps	N/A
Software Compression:	N/A	N/A	Included: 50 Mbps Maximum: 3.8 Gbps
Software Architecture:	64-bit TMOS	64-bit TMOS	64-bit TMOS
Processor:	Dual CPU, quad core (8 processors)	Dual CPU, dual core (4 processors)	Quad core CPU
Memory:	16 GB	8 GB	8 GB
Hard Drive:	Two 320 GB drives (RAID 1)	Two 320 GB drives (RAID 1)	300 GB, 10,000 RPM
Gigabit Ethernet CU Ports:	16	16	8
Gigabit Fiber Ports (SFP):	8 LX; SX or copper (4 SX included)	8 LX; SX or copper (4 SX included)	4 optional LX, SX, or copper
10 Gigabit Fiber Ports (SFP+):	2 SR (sold separately)	N/A	N/A
Power Supply:	Dual 850W included	Dual 850W included	One 300W included, dual power option
Typical Consumption:	450W (110V input)	300W (110V input)	175W (110V input)
Input Voltage:	90-240 VAC +/- 10% auto switching, 50/60hz	90-240 VAC +/- 10% auto switching, 50/60hz	90-240 VAC +/- 10% auto switching
Typical Heat Output:	1536 BTU/hour (110V input)	1024 BTU/hour (110V input)	598 BTU/hour (110V input)
Dimensions:	3.5" H x 17.3" W x 21.4" D 2U industry standard rack-mount chassis	3.5" H x 17.75" W x 20.75" D 2U industry standard rack-mount chassis	1.75" H x 17" W x 21" D (per unit) 1U industry standard rack-mount chassis
Weight:	45.5 lbs. (dual power supply)	45.5 lbs. (dual power supply)	20 lbs. (one power supply)
Operating Temperature:	32° to 104° F (0° to 40° C)	32° to 104° F (0° to 40° C)	32° to 104° F (0° to 40° C)
Relative Humidity:	5 to 85% @ 40° C	5 to 85% @ 40° C	10 to 90% @ 40° C
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	UL 60950 (UL1950-3) CSA-C22.2 No. 60950-00 (bi-national standard with UL 60950) CB TEST CERTIFICATION TO IEC 950 EN 60950	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	EN55022 1998 Class A EN55024 1998 Class A FCC Part 15B Class A VCCI Class A NEBS compliant (option)	EN55022 1998 Class A EN55024 1998 Class A FCC Part 15B Class A VCCI Class A

*Maximum throughput.

3600

1600

Specifications	3600	1600
Traffic Throughput:	2 Gbps	1 Gbps
Hardware SSL:	Included: 500 TPS Maximum: 10,000 TPS (1K keys), 2,000 TPS (2K keys), 2 Gbps bulk encryption*	Included: 500 TPS Maximum: 5,000 TPS (1K keys), 1,000 TPS (2K keys), 1 Gbps bulk encryption*
Software Compression:	Included: 50 Mbps Maximum: 1 Gbps	Included: 50 Mbps Maximum: 1 Gbps
Software Architecture:	64-bit TMOS	64-bit TMOS
Processor:	Dual core CPU	Dual core CPU
Memory:	4 GB	4 GB
Hard Drive:	500 GB	500 GB
Gigabit Ethernet CU Ports:	8	4
Gigabit Fiber Ports (SFP):	2 optional LX, SX, or copper	2 optional LX, SX, or copper
Power Supply:	One 300W included, dual power option	One 300W included, dual power option
Typical Consumption:	165W (110V input)	150W (110V input)
Input Voltage:	90-240 +/- 10% VAC auto switching	90-240 +/- 10% VAC auto switching
Typical Heat Output:	563 BTU/hour (110V input)	512 BTU/hour (110V input)
Dimensions:	1.75" H x 17" W x 21" D (per unit) 1U industry standard rack-mount chassis	1.75" H x 17" W x 21" D (per unit) 1U industry standard rack-mount chassis
Weight:	20 lbs. (one power supply)	20 lbs. (one power supply)
Operating Temperature:	32° to 104° F (0° to 40° C)	32° to 104° F (0° to 40° C)
Relative Humidity:	10 to 90% @ 40° C	10 to 90% @ 40° C
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	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	EN55022 1998 Class A EN55024 1998 Class A FCC Part 15B Class A VCCI Class A

*Maximum throughput.

More Information

Visit these resources on f5.com to learn more about the BIG-IP family of products.

Datasheets

BIG-IP® Local Traffic Manager™
BIG-IP® Global Traffic Manager™
BIG-IP® Application Security Manager™
BIG-IP® Link Controller™
BIG-IP® WebAccelerator™
BIG-IP® Edge Gateway™
BIG-IP® Access Policy Manager™
BIG-IP® WAN Optimization Module™

Reports

F5 Application Delivery Controller Performance Report

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