

Overview

Models

HP TippingPoint S1050F Next Generation Firewall Appliance	JC882A
HP TippingPoint S3010F Next Generation Firewall Appliance	JC883A
HP TippingPoint S3020F Next Generation Firewall Appliance	JC884A
HP TippingPoint S8005F Next Generation Firewall Appliance	JC885A
HP TippingPoint S8010F Next Generation Firewall Appliance	JC886A

Key features

- Advanced security protection, with over 7,400 filters, blocks vulnerabilities without impacting network performance
- Developed on HP TippingPoint Next Generation Intrusion Prevention System (NGIPS) engine with a 99.99999 percent network uptime track record
- Gain broader visibility and granular control over authorized and unauthorized applications running on your network
- Enhanced and flexible policy setting reduces operational expenses and enables a consistent security posture across your HP network security devices
- Industry leading, weekly DVLabs threat protection services helps ensure you're protected from the latest threats and attacks

Product overview

The evolving threat landscape is a security risk to networks and data centers everywhere. Organizations are losing network visibility and control, as attacks become more sophisticated across application, device, and data threat vectors. Customers are concerned with enabling productivity without compromising the data that matters—both inside and outside the organization.

HP TippingPoint Next-Generation Firewall (NGFW) enables you to take back control and proactively improve your organization's security posture, without compromising network availability. This new product line is developed on the proven HP TippingPoint NGIPS engine and delivers reliability, security effectiveness, ease-of-use, and application visibility and control to address today's advanced threats.

Features and benefits

Reliability

Network security does not matter if the network cannot perform to meet user demand. HP TippingPoint has developed network security devices that have delivered 99.99999 percent customer network uptime nearly continuously.¹ The next-generation firewall family of products was designed to help ensure the network is there for all transactions, from day-to-day to the most sensitive data transfers.

Ease-of-use

IT budgets are limited and organizations are understaffed. HP TippingPoint NGFW can help significantly reduce your operational expenses. It can be installed and deployed in less than one hour right out of the box with a single management interface that shares network security policy configurations. HP TippingPoint NGFW allows customers to create a custom dashboard and automatic reporting.² Our next-generation firewall is designed to be self-sufficient and allow customers to set-it and forget-it. Management

Security Effectiveness³

Security intelligence is only helpful if it stays ahead of threats, and does not compromise performance. HP TippingPoint is an industry leader in security effectiveness through the HP TippingPoint Zero Day Initiative Program and the DVLabs security research team, which has published over 7,400 filters to date. Weekly DVLabs updates help our customers stay ahead of threats and protect their network by stopping exploits and blocking attacks.

Overview

Application visibility and control

Knowing what applications are running on your network and who is accessing those applications is a critical element of your security strategy. HP TippingPoint NGFW provides the visibility you need to see and manage the applications running on your network while also providing the flexibility to set the policy to block and control undesirable or evasive applications.

Key Features

- IPv6 ready networking features including link aggregation, OSPF, RIP, BGP and multicast dynamic routing, and VLAN support.
- Easy deployment in transparent or routed modes.
- 2-node Active-Passive High Availability with state synchronization.
- IPSec Site-to-Site and Client-to-site VPN connectivity
- Integrated user based policy with integration with Active Directory, LDAP or RADIUS authentication services.
- Role Based Access Control (RBAC) gives control on who can affect what parts of the device configuration.

¹ Based on HP internal study of a random sampling of 100 customer accounts over a 12 month period in 2012. Planned/scheduled maintenance windows to install replacement devices or other hot swappable parts (for example, power supplies, fan, etc.) were not considered as downtime in these numbers.

² Based on an HP survey of customers performed Q3 2012

³ Frost & Sullivan Vulnerability Report 2013

Configuration

Build To Order: BTO is a standalone unit with no integration. BTO products ship standalone are not part of a CTO or Rack-Shippable solution.

HP S1050F NGFW Appliance

- 8 - 10/100/100 RJ-45 ports
- 1 - 10/100/100 RJ-45 High Availability port
- 2 Power supplies included
- Redundant hot-swappable fans included
- 1U - Height

JC882A

[See Configuration Note:3](#)

PDU CABLE NA/MEX/TW/JP

- C15 PDU Jumper Cord (NA/MEX/TW/JP)

JC882A#B2B

PDU CABLE ROW

- C15 PDU Jumper Cord (ROW)

JC882A#B2C

High Volt Switch to Wall Power Cord

- NEMA L6-20P Cord (NA/MEX/JP/TW)

JC882A#B2E

HP S3010F NGFW Appliance

- 8 - 10/100/100 RJ-45 ports
- 1 - 10/100/100 RJ-45 High Availability port
- 8 - SFP Ports (Min 0 // Max 8 SFP Transceivers)
- 2 Power supplies included
- Redundant hot-swappable fans included
- 2U - Height

JC883A

[See Configuration Note:1, 3](#)

PDU CABLE NA/MEX/TW/JP

- C15 PDU Jumper Cord (NA/MEX/TW/JP)

JC883A#B2B

PDU CABLE ROW

- C15 PDU Jumper Cord (ROW)

JC883A#B2C

High Volt Switch to Wall Power Cord

- NEMA L6-20P Cord (NA/MEX/JP/TW)

JC883A#B2E

HP S3020F NGFW Appliance

- 8 - 10/100/100 RJ-45 ports
- 1 - 10/100/100 RJ-45 High Availability port
- 8 - SFP Ports (Min 0 // Max 8 SFP Transceivers)
- 2 Power supplies included
- Redundant hot-swappable fans included
- 2U - Height

JC884A

[See Configuration Note:1, 3](#)

PDU CABLE NA/MEX/TW/JP

- C15 PDU Jumper Cord (NA/MEX/TW/JP)

JC884A#B2B



Configuration

PDU CABLE ROW	JC884A#B2C
<ul style="list-style-type: none">• C15 PDU Jumper Cord (ROW)	
High Volt Switch to Wall Power Cord	JC884A#B2E
<ul style="list-style-type: none">• NEMA L6-20P Cord (NA/MEX/JP/TW)	
HP S8005F NGFW Appliance	JC885A
<ul style="list-style-type: none">• 8 - 10/100/100 RJ-45 ports• 2 - 10/100/100 RJ-45 High Availability ports• 8 - SFP Ports (Min 0 // Max 8 SFP Transceivers)• 4 - SFP+ Ports (Min 0 // Max 4 SFP+ Transceivers)• 2 Power supplies included• Redundant hot-swappable fans included• 2U - Height	See Configuration Note:1, 2, 3
PDU CABLE NA/MEX/TW/JP	JC885A#B2B
<ul style="list-style-type: none">• C15 PDU Jumper Cord (NA/MEX/TW/JP)	
PDU CABLE ROW	JC885A#B2C
<ul style="list-style-type: none">• C15 PDU Jumper Cord (ROW)	
High Volt Switch to Wall Power Cord	JC885A#B2E
<ul style="list-style-type: none">• NEMA L6-20P Cord (NA/MEX/JP/TW)	
HP S8010F NGFW Appliance	JC886A
<ul style="list-style-type: none">• 8 - 10/100/100 RJ-45 ports• 2 - 10/100/100 RJ-45 High Availability ports• 8 - SFP Ports (Min 0 // Max 8 SFP Transceivers)• 4 - SFP+ Ports (Min 0 // Max 4 SFP+ Transceivers)• 2 Power supplies included• Redundant hot-swappable fans included• 2U - Height	See Configuration Note:1, 2, 3
PDU CABLE NA/MEX/TW/JP	JC886A#B2B
<ul style="list-style-type: none">• C15 PDU Jumper Cord (NA/MEX/TW/JP)	
PDU CABLE ROW	JC886A#B2C
<ul style="list-style-type: none">• C15 PDU Jumper Cord (ROW)	
High Volt Switch to Wall Power Cord	JC886A#B2E
<ul style="list-style-type: none">• NEMA L6-20P Cord (NA/MEX/JP/TW)	

Configuration Rules

Configuration

Note 1	The following SFP Transceivers are supported on this Appliance:	
	HP X120 1G SFP LC SX Transceiver	JD118B
	HP X121 1G SFP LC SX Transceiver	J4858C

Note 2	The following SFP+ Transceivers are supported on this Appliance:	
	HP X130 SFP+ LC SR Transceiver	JD092B
	HP X130 SFP+ LC LRM Transceiver	JD093B
	HP X132 10G SFP+ LC SR Transceiver	J9150A
	HP X132 10G SFP+ LC LRM Transceiver	J9152A
	HP X240 10G SFP+ SFP+ 3m DAC Cable	JD097C
	HP X242 10G SFP+ SFP+ 3m DAC Cable	J9283B
HP X242 10G SFP+ SFP+ 7m DAC Cable	J9285B	

Note 3	Localization required on orders without #B2B, #B2C, or #B2E options.
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Transceivers

SFP Transceivers

HP X120 1G SFP LC SX Transceiver	JD118B
HP X121 1G SFP LC SX Transceiver	J4858C

SFP+ Transceivers

HP X130 SFP+ LC SR Transceiver	JD092B
HP X130 SFP+ LC LRM Transceiver	JD093B
HP X132 10G SFP+ LC SR Transceiver	J9150A
HP X132 10G SFP+ LC LRM Transceiver	J9152A
HP X240 10G SFP+ SFP+ 3m DAC Cable	JD097C
HP X242 10G SFP+ SFP+ 3m DAC Cable	J9283B
HP X242 10G SFP+ SFP+ 7m DAC Cable	J9285B

Internal Power Supplies

HP TippingPoint 750W AC Power Supply	JC901A
<ul style="list-style-type: none">Spare Only (Parts List Only) 2 Power Supplies included in Chassis	

Firewall Specific Options

Mounting Kit

HP TippingPoint Quick Release Slide Kit	JC899A
<ul style="list-style-type: none">Spare Only (Parts List Only) Quick Release Slide Kit included with Chassis	See Configuration Note:1

Configuration

Configuration Rules:

Note 1 Supported on the following Chassis only:
JC883A, JC884A, JC885A and JC886A

Fans

HP TippingPoint 80mm Fan Module JC900A
• Spare Only (Parts List Only) 2 Fans included in Chassis

CFast cards

HP TippingPoint 32Gb CFast Card JC903A
• (min 0 // max 1) See Configuration Note:1, 2

Configuration Rules:

Note 1 These CFast Cards are supported as an upgrade on the following Chassis only:
JC882A, JC883A, and JC884A

Note 2 These CFast Cards are supported as a spare on the following Chassis only:
JC885A and JC886A

Software Licenses

HP TP DVLabs DV for S1050F 1-yr E-LTU JC887AAE
• (min 1 // max 3) See Configuration Note:1

HP TP DVLabs RepDV for S1050F 1-yr E-LTU JC888AAE
• (min 0 // max 3) See Configuration Note:1

HP TP DVLabs DV for S3010F 1-yr E-LTU JC889AAE
• (min 1 // max 3) See Configuration Note:2

HP TP DVLabs DV for S3020F 1-yr E-LTU JC890AAE
• (min 0 // max 3) See Configuration Note:2

JC890AAE JC891AAE
• (min1 // max 3) See Configuration Note:3

HP TP DVLabs RepDV for S3020F 1-yr E-LTU JC892AAE
• (min 0 // max 3) See Configuration Note:3

HP TP DVLabs DV for S8005F 1-yr E-LTU JC893AAE
• (min 1 // max 3) See Configuration Note:4

HP TP DVLabs RepDV for S8005F 1-yr E-LTU JC894AAE
• (min 0 // max 3) See Configuration Note:4



Configuration

HP TP DV Labs DV for S8010F 1-yr E-LTU

- (min 1 // max 3)

JC895AAE

[See Configuration Note:5](#)

HP TP DV Labs RepDV for S8010F 1-yr E-LTU

- (min 0 // max 3)

JC896AAE

[See Configuration Note:5](#)

Configuration Rules:

Note 1 [Only supported on JC882A](#)

Note 2 [Only supported on JC883A](#)

Note 3 [Only supported on JC884A](#)

Note 4 [Only supported on JC885A](#)

Note 5 [Only supported on JC886A](#)

Technical Specifications

HP TippingPoint S1050F Next Generation Firewall Appliance (JC882A)

Performance*	Firewall: 500 Mb/s; Firewall + IPS (512 bytes): 250 Mb/s; Firewall + IP S+ Application control (IMIX): 250 Mb/s; IPSec VPN: 250 Mb/s; Maximum IPSec VPN tunnels: 1250; Typical latency Firewall + IPS: <600 microseconds; Concurrent sessions: 250,000; New connections per second: 10,000
* Note:	Performance data represents the maximum capabilities of the systems as measured under optimal testing conditions.
Network connectivity	Eight 10/100/1000 RJ-45 ports; One 10/100/100 RJ-45 High Availability port;
On-box storage	8 GB solid state replaceable CFast flash drive
Management	One out-of-band 10/100/1000 RJ-45 port; or via in-band network ports; 1 RJ-45 serial console port; Manageable via Security Management Server (SMS), command-line SSH, HTTPS Web browser, HP TippingPoint NGFW Management Information Base (MIB)
Electrical characteristics (AC)	Voltage: 100-240 VAC Current (max. fused power): 4/2 A Frequency: 50-60 Hz Power consumption: 142W (484 BTU/hour); Dual, redundant hot-swappable power supplies included
Physical characteristics (unpacked)	Dimensions: 1.73 in (H) x 16.78 in (W) x 17.72 in (D) (4.40 cm x 42.62 cm x 45.00 cm) Weight: 15.28 lbs (6.93 kg) Rack units: 1U Includes mounting hardware for 2 post front, 2 post mid, or 4 post mounting; Redundant hot-swappable fans included;
Environment	Operating temperature: 32°F to 104°F (0°C to 40°C) Operating relative humidity: 5% to 95% non-condensing Non-operating/storage temperature: -4°F to 158°F (-20°C to 70°C) Non-operating/storage relative humidity: 5% to 95% non-condensing Altitude: Up to 10,000 feet (3,048 m)
Safety	UL 60950-1; IEC 60950-1; EN 60950-1; CSA 22.2 60950-1; ROHS Compliance
EMC	Class A; FCC; VCCI; KC; EN 55022; CISPR 22; EN 55024; CISPR 24; EN 61000-3-2; EN 61000-3-3;

Technical Specifications

CE Marking

HP TippingPoint S3010F Next Generation Firewall Appliance (JC883A)

Performance*	Firewall: 1 Gb/s; Firewall + IPS (512 bytes): 500 Mb/s; Firewall + IP S+ Application control (IMIX): 500 Mb/s; IPSec VPN: 500 Mb/s; Maximum IPSec VPN tunnels: 7500; Typical latency Firewall + IPS: <120 microseconds; Concurrent sessions: 500,000; New connections per second: 20,000
* Note: Performance data represents the maximum capabilities of the systems as measured under optimal testing conditions.	
Network connectivity	Eight 10/100/1000 RJ-45 ports; Eight 1 Gb/s SFP copper/ fiber ports; One 10/100/1000 RJ-45 High Availability port
On-box storage	8 GB solid state replaceable CFast flash drive
Management	One out-of-band 10/100/1000 RJ-45 port; or via in-band ports; 1 RJ-45 serial console port; Manageable via Security Management Server (SMS), command-line SSH, HTTPS Web browser, HP TippingPoint NGFW Management Information Base (MIB)
Electrical characteristics (AC)	Voltage: 100-240 VAC Current (max. fused power): 12/6 A Frequency: 47-63 Hz Power consumption: 493W (1682 BTU/hour); Dual, redundant hot-swappable power supplies included;
Physical characteristics (unpacked)	Dimensions: 3.46 in (H) x 16.77 in (W) x 18.70 in (D) (8.80 cm x 42.60 cm x 47.50 cm) Weight: 22.66 lbs (10.28 kg) Rack units: 2U Includes mounting hardware for 2-post front, 2-post mid, and 4-post quick release slides rail mounting; Redundant hot-swappable fans included;
Environment	Operating temperature: 32°F to 104°F (0°C to 40°C) Operating relative humidity: 5% to 95% non-condensing Non-operating/storage temperature: -4°F to 158°F (-20°C to 70°C) Non-operating/storage relative humidity: 5% to 95% non-condensing Altitude: Up to 10,000 feet (3,048 m)
Safety	UL 60950-1; IEC 60950-1; EN 60950-1; CSA 22.2 60950-1; ROHS Compliance
EMC	Class A; FCC; VCCI; KC; EN 55022; CISPR 22;

Technical Specifications

EN 55024;
CISPR 24;
EN 61000-3-2;
EN 61000-3-3;
CE Marking

HP TippingPoint S3020F Next Generation Firewall Appliance (JC884A)

Performance* Firewall: 2 Gb/s;
Firewall + IPS (512 bytes): 1 Gb/s;
Firewall + IP S+ Application control (IMIX): 1 Gb/s;
IPSec VPN: 1 Gb/s;
Maximum IPSec VPN tunnels: 7500;
Typical latency Firewall + IPS: <120 microseconds;
Concurrent sessions: 1,000,000;
New connections per second: 20,000

* Note: Performance data represents the maximum capabilities of the systems as measured under optimal testing conditions.

Network connectivity Eight 10/100/1000 RJ-45 ports;
Eight 1 Gb/s SFP copper/ fiber ports;
One 10/100/1000 RJ-45 High Availability port;

On-box storage 8 GB solid state replaceable CFast flash drive

Management One out-of-band 10/100/1000 RJ-45 port; or via in-band ports; 1 RJ-45 serial console port; Manageable via Security Management Server (SMS), command-line SSH, HTTPS Web browser, HP TippingPoint NGFW Management Information Base (MIB)

Electrical characteristics (AC) Voltage: 100-240 VAC
Current (max. fused power): 12/6 A
Frequency: 47-63 Hz
Power consumption: 493W (1682 BTU/hour);
Dual, redundant hot-swappable power supplies included;

Physical characteristics (unpacked) Dimensions: 3.46 in (H) x 16.77 in (W) x 18.70 in (D)
(8.80 cm x 42.60 cm x 47.50 cm)
Weight: 22.66 lbs (10.28 kg)
Rack units: 2U
Includes mounting hardware for 2-post front, 2-post mid, and 4-post quick release slides rail mounting;
Redundant hot-swappable fans included;

Environment Operating temperature: 32°F to 104°F (0°C to 40°C)
Operating relative humidity: 5% to 95% non-condensing
Non-operating/storage temperature: -4°F to 158°F (-20°C to 70°C)
Non-operating/storage relative humidity: 5% to 95% non-condensing
Altitude: Up to 10,000 feet (3,048 m)

Safety UL 60950-1;
IEC 60950-1;
EN 60950-1;
CSA 22.2 60950-1;
ROHS Compliance

EMC Class A;
FCC;
VCCI;

Technical Specifications

KC;
EN 55022;
CISPR 22;
EN 55024;
CISPR 24;
EN 61000-3-2;
EN 61000-3-3;
CE Marking

HP TippingPoint S8005F Next Generation Firewall Appliance (JC885A)

Performance* Firewall: 5 Gb/s;
Firewall + IPS (512 bytes): 2.5 Gb/s;
Firewall + IP S+ Application control (IMIX): 2.5 Gb/s;
IPSec VPN: 1.5 Gb/s;
Maximum IPSec VPN tunnels: 7500;
Typical latency Firewall + IPS: <120 microseconds;
Concurrent sessions: 10,000,000;
New connections per second: 50,000

* Note: Performance data represents the maximum capabilities of the systems as measured under optimal testing conditions.

Network connectivity Eight 10/100/1000 RJ-45 ports;
Eight 1 Gb/s SFP copper/ fiber ports;
Four 10 Gb/s SFP+ copper/ fiber ports;
Two 10/100/1000 RJ-45 High Availability ports;

On-box storage 32 GB solid state replaceable CFast flash drive;

Management One out-of-band 10/100/1000 RJ-45 port; or via in-band ports; 1 RJ-45 serial console port; Manageable via Security Management Server (SMS), command-line
SSH, HTTPS Web browser, HP TippingPoint NGFW Management Information Base (MIB)

Electrical characteristics (AC) Voltage: 100-240 VAC
Current (max. fused power): 12/6 A
Frequency: 47-63 Hz
Power consumption: 493W (1682 BTU/hour);
Dual, redundant hot-swappable power supplies included;

Physical characteristics (unpacked) Dimensions: 3.46 in (H) x 16.77 in (W) x 18.70 in (D)
(8.80 cm x 42.60 cm x 47.50 cm)
Weight: 26.26 lbs (11.91 kg)
Rack units: 2U
Includes mounting hardware for 2-post front, 2-post mid, and 4-post quick release slides rail mounting;
Redundant hot-swappable fans included;

Environment Operating temperature: 32°F to 104°F (0°C to 40°C)
Operating relative humidity: 5% to 95% non-condensing
Non-operating/storage temperature: -4°F to 158°F (-20°C to 70°C)
Non-operating/storage relative humidity: 5% to 95% non-condensing
Altitude: Up to 10,000 feet (3,048 m)

Safety UL 60950-1;
IEC 60950-1;
EN 60950-1;
CSA 22.2 60950-1;
ROHS Compliance

Technical Specifications

EMC	Class A; FCC; VCCI; KC; EN 55022; CISPR 22; EN 55024; CISPR 24; EN 61000-3-2; EN 61000-3-3; CE Marking
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HP TippingPoint S8010F Next Generation Firewall Appliance (JC886A)

Performance*	Firewall: 10 Gb/s; Firewall + IPS (512 bytes): 5 Gb/s; Firewall + IP S+ Application control (IMIX): 5 Gb/s; IPSec VPN: 3 Gb/s; Maximum IPSec VPN tunnels: 7500; Typical latency Firewall + IPS: <120 microseconds; Concurrent sessions: 20,000,000; New connections per second: 50,000
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* Note: Performance data represents the maximum capabilities of the systems as measured under optimal testing conditions.

Network connectivity	Eight 10/100/1000 RJ-45 ports; Eight 1 Gb/s SFP copper/ fiber ports; Four 10 Gb/s SFP+ copper/ fiber ports; Two 10/100/1000 RJ-45 High Availability port;
On-box storage	32 GB solid state replaceable CFast flash drive;
Management	One out-of-band 10/100/1000 RJ-45 port; or via in-band ports; 1 RJ-45 serial console port; Manageable via Security Management Server (SMS), command-line SSH, HTTPS Web browser, HP TippingPoint NGFW Management Information Base (MIB)
Electrical characteristics (AC)	Voltage: 100-240 VAC Current (max. fused power): 12/6 A Frequency: 47-63 Hz Power consumption: 493W (1682 BTU/hour); Dual, redundant hot-swappable power supplies included;
Physical characteristics (unpackaged)	Dimensions: 3.46 in (H) x 16.77 in (W) x 18.70 in (D) (8.80 cm x 42.60 cm x 47.50 cm) Weight: 26.26 lbs (11.91 kg) Rack units: 2U Includes mounting hardware for 2-post front, 2-post mid, and 4-post quick release slides rail mounting; Redundant hot-swappable fans included;
Environment	Operating temperature: 32°F to 104°F (0°C to 40°C) Operating relative humidity: 5% to 95% non-condensing Non-operating/storage temperature: -4°F to 158°F (-20°C to 70°C) Non-operating/storage relative humidity: 5% to 95% non-condensing Altitude: Up to 10,000 feet (3,048 m)

Technical Specifications

Safety	UL 60950-1; IEC 60950-1; EN 60950-1; CSA 22.2 60950-1; ROHS Compliance
EMC	Class A; FCC; VCCI; KC; EN 55022; CISPR 22; EN 55024; CISPR 24; EN 61000-3-2; EN 61000-3-3; CE Marking

Accessories

HP TippingPoint Next-Generation Firewall Accessories

HP TP DV Labs DV for S1050F 1-yr E-LTU	JC887AAE
HP TippingPoint DV Labs RepDV for S1050F 1-yr E-LTU	JC888AAE
HP TippingPoint DV Labs Digital Vaccine for S3010F 1-yr E-LTU	JC889AAE
HP TippingPoint DV Labs RepDV for S3010F 1-yr E-LTU	JC890AAE
HP TippingPoint DV Labs Digital Vaccine for S3020F 1-yr E-LTU	JC891AAE
HP TippingPoint DV Labs RepDV for S3020F 1-yr E-LTU	JC892AAE
HP TippingPoint DV Labs Digital Vaccine for S8005F 1-yr E-LTU	JC893AAE
HP TippingPoint DV Labs RepDV for S8005F 1-yr E-LTU	JC894AAE
HP TippingPoint DV Labs Digital Vaccine for S8010F 1-yr E-LTU	JC895AAE
HP TippingPoint DV Labs RepDV for S8010F 1-yr E-LTU	JC896AAE
HP vSMS for VMWare vSphere 1-host SW E-LTU	JC897AAE
HP SMS Add 20-node System E-LTU	JC898AAE
HP TippingPoint Quick Release Slide Kit	JC899A
HP TippingPoint 80mm Fan Module	JC900A
HP TippingPoint 750W AC Power Supply	JC901A
HP TippingPoint 32Gb CFast Card	JC903A

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