



# CHECK POINT 41000 AND 61000 SECURITY SYSTEMS

## CHECK POINT SECURITY SYSTEMS

Scalable performance, advanced security

### Product Benefits

- Scalable platform that grows with your business
- High port density with 40GbE and 10GbE fiber ports
- Full redundancy (N+N, N+1) eliminates down-time
- Designed for ease of management and fast deployment

### Product Features

- Scalable security solution from 3,200 up to 33,000 SecurityPower units
- High raw firewall performance of up to 80 Gbps in the 41000 and 400 Gbps in the 61000
- Real-world IPS performance up to 25 Gbps in the 41000 and 70 Gbps in the 61000
- High port density with up to 30x10GbE, 4x40GbE in the 41000 and 60x10GbE, 8x40GbE in the 61000
- Intra/Dual-Chassis redundancy
- Carrier grade ATCA compliant chassis

## INSIGHTS

Large data centers have uncompromising needs for performance, uptime and scalability. High end security gateway solutions must perform network access control within the unique requirements of these environments—ultra-high throughput, connection capacity, session and logging rate—while supporting the latest networking standards like IPv6. With the increase in sophisticated attacks, additional security layers such as IPS, Application Control, URL Filtering, Antivirus and others are also required. In addition to their vast performance and security needs, data center environments are characterized by rigid requirements for high reliability of its various systems. All of these requirements drive the need for redundant, serviceable and highly available components and systems.

## SOLUTION

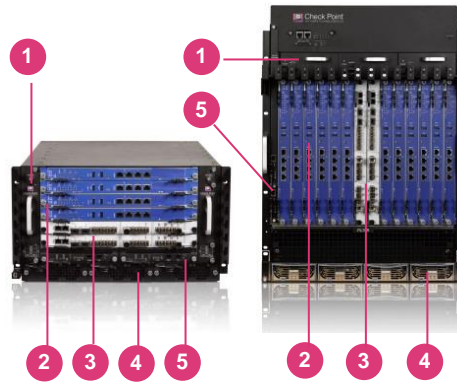
The Check Point 41000 and 61000 Security Systems are built for these demanding environments and are based on proven technologies used by Fortune 100 companies and telecommunication vendors all over the world. The Check Point Firewall, IPS, Application Control and Identity Awareness technologies have been awarded the highest 3rd-party certifications possible including NATO Information Product Catalog; US Government penetration testing; Department of Defense Information Systems Agency, ISO-IEC 15408 and more.

The ATCA compliant, carrier grade design offers unsurpassed scalability, availability and serviceability with high performance and high port density. Redundant Security Switch Modules (SSM) provide switching fabric, physical interface, and routing functions. Redundant Chassis Management Modules (CMM) continuously check and monitor the health of the chassis including fans, power supplies and Security Gateway Modules (SGM). For optimal reliability, Check Point ClusterXL Load Sharing distributes the load between Security Gateway Modules in one chassis and ClusterXL High Availability operates between chassis. Check Point SyncXL provides for highly efficient synchronization of system and security information between components in order to ensure high system performance. Deploy two chassis in high availability mode to eliminate down-time.

These two platforms improve security, protect business continuity and reduce operational costs in complex, mission critical security environments such as data centers, Managed Service Providers and telecommunication companies. By adding more SGMs companies get more security and performance. Because SGMs are hot-swappable, customers can add SGMs, boosting performance to new or existing 41000 and 61000 systems even when those systems are in production.

**41000 and 61000**

- 1 Fan Trays
- 2 Security Gateway Modules (SGM)
- 3 Security Switch Modules (SSM)
- 4 Power Supplies
- 5 Chassis Management Modules (CMM)



**61000 SECURITY SYSTEM**

The Check Point 61000 Security System is the industry’s fastest security system, achieving up to 400 Gbps of throughput in a single firewall instance. Even more, the ability to support 210 million concurrent connections and 3 million sessions per second brings unparalleled performance to multi-transaction environments.

This ATCA compliant, scalable system contains up to 12 Security Gateway Modules (SGM) and 2 or 4 Security Switch Modules (SSM). The SSMs distribute the load evenly across the 1.2 Tbps chassis backplane fabric to the SGMs ensuring near linear scalability from 80 up to 400 Gbps as SGMs are added to the chassis. The 61000 Security System delivers a SecurityPower range starting at 3,200 units with 1 SGM and scales up to 33,000 units with 12 SGMs and 2 SSMs.

The 61000 Security System has been designed from the ground up to support the unique service requirements of Telco’s and data centers. This includes system level redundancy and chassis level redundancy of the components that comprise the 61000 such as power-supplies, fans and the various hardware modules.

**41000 SECURITY SYSTEM**

The Check Point 41000 Security System is a compact 6U ATCA compliant chassis that can contain up to 4 Security Gateway Modules (SGM) and 2 Security Switch Modules (SSM). The 41000 chassis distributes the load evenly among the SGMs ensuring near linear scalability from 20 up to 80 Gbps of firewall throughput as SGMs are added to the chassis.

The 41000 Security System delivers a SecurityPower range starting at 3,200 SecurityPower Units (SPU) with 1 SGM and scales to 11,000 SPUs with 4 SGMs. The shared design, components, and the flexibility to add additional security controls facilitates future expansion and growth of the network infrastructure, providing excellent investment protection.

**VIRTUAL SYSTEMS**

Check Point Virtual Systems (VS) enable organizations to create virtualized security gateways to consolidate infrastructure and segment the network while reducing costs and offering customized per-Virtual System Software Blade security. The solution supports seamless performance scale-up by adding more Virtual Systems and hardware blades, with traffic evenly balanced across the entire chassis.

	Gateway Mode	VS Mode
Firewall	✓	✓
IPsec VPN	✓	✓
Identity Awareness	✓	✓
IPS	✓	✓
Application Control	✓	✓
URL Filtering	✓	✓
Antivirus	✓	✓
Anti-Bot	✓	✓
SandBlast Threat Emulation	✓	✓
DLP	✓	✗
Mobile Access	✓	✗

✓ supported, ✗ not supported

**EASE OF MANAGEMENT**

Our renowned security management software centrally manages the 41000 and 61000 from anywhere in the network. With our intuitive configuration wizard, the first SGM can be deployed in less than 30 minutes and additional SGMs can be added seamlessly.

**INTEGRATED SECURITY ARCHITECTURE**

Each 41000 and 61000 Security System is packaged with a group of preselected Check Point Software Blades including Firewall, IPsec VPN, Identity Awareness, Advanced Networking, and Acceleration and Clustering. Enable additional Software Blades to further extend and customize your protection. This lowers total cost of ownership and meets any need, today and in the future.

## PERFORMANCE

	41000	61000
<b>Production Performance</b>		
SecurityPower <sup>1</sup>	3,200 to 11,000	3,200 to 33,000
Firewall Throughput (Gbps)	Up to 40	Up to 120
IPS Throughput (Gbps)	Up to 25	Up to 70
<b>RFC 3511, 2544, 2647, 1242 Performance Tests (LAB)</b>		
Firewall Throughput, 1518 byte UDP (Gbps)	Up to 80	Up to 400
VPN Throughput AES-128 (Gbps)	Up to 40	Up to 110
IPS Recommended Profile IMIX traffic blend (Gbps)	Up to 44	Up to 130
Connections Per Second (M)	Up to 1.1	Up to 3
Concurrent Sessions (M)	Up to 80	Up to 210
<b>Security Gateway Modules</b>		
SGM260 (Default/Max)	1/4	2/12
<b>Virtual Systems</b>		
Maximum	250	

<sup>1</sup> Performance measured with real-world traffic blend and content, a typical rule base, updated recommended signatures, NAT and logging enabled. Find the right appliance for your performance and security requirements using the Appliance Selection Tool.

## HARDWARE

	41000	61000
<b>Physical</b>		
Enclosure	6U	15U (with AC PSUs)
Dimensions Standard (WxDxH)	17.64 x 16.3 x 10.5 in.	17.63" X 15.2" D x 26.2" H in.
Dimensions Metric (WxDxH)	448 x 413.4 x 266.7 mm	448 x 385.6 x 665 mm
Weight (chassis without SGMs)	23 kg (51 lbs.)	47 kg (96 lbs.)
Weight (fully populated)	38.6 kg (84.9 lbs.)	65.84 kg (145 lbs.)
<b>AC Power</b>		
Power Supplies	3	4
Input Voltage	100-240VAC	90-246VAC
Frequency	50-60 Hz	47-63Hz
Single Power Supply Rating	1200W @ 110V, 1500W @ 220V	2500W @ 208V/230V, 1500W @ 110V (USA), 1300W @ 100V (Japan)
<b>DC Power</b>		
Power Entry Modules (PEM)	2	2
Input	-48V to -60V, four feeds per module, 50 Amps per feed	-48V to -60V, Five feeds per module, 50 Amps per feed
<b>Power Consumption</b>		
Maximum	2300W	4900W
Thermal Output	7847.9 BTU/hour	16,660 BTU/hour
<b>Operating Environmental Conditions</b>		
Temperature	23° to 131°F / -5° to 55°C	
Humidity	5%-90% (non-condensing)	
<b>Storage Conditions</b>		
Temperature	-40° to 158°F / -40° to 70°C	
Humidity	5%-95% (non-condensing)	
<b>Certifications</b>		
Safety	UL	CB, UL/cUL/SCA, TUV
Emissions	CE, FCC part 15	CE, FCC part 15, VCCI, C-Tick
Environmental	RoHS	RoHS

## NETWORK

	41000 2 Security Switch Modules (SSM160)	61000 4 Security Switch Modules (SSM160)
40GBase-F QSFP (Max ports)	4	8
10GBase-F SFP+ (Max ports with 4x10GbE QSFP splitters)	30	60
10GBase-F SFP+ (Max ports without 4x10GbE QSFP splitters)	14	28
1 GbE copper or fiber (Max ports)	14	28
<b>SSM160 Transceivers</b>		
Network and Synchronization	QSFP transceiver for 40GbE ports (SR/LR) QSFP Splitter for 40 GbE ports SFP+ (10GbE) Fiber transceiver for SFP+ ports (SR/LR) SFP (1GbE) Fiber transceiver for SFP+ ports (SX/LX) Twisted pair (1GbE) transceiver for SFP+ ports	
Management and Log	SFP+ (10GbE) Fiber transceiver for SFP+ ports (SR/LR) Fiber transceiver for 1GbE SFP+ ports (SX/LX) Twisted pair transceiver for 1GbE SFP+ ports (SX/LX)	

## SOFTWARE BLADE PACKAGES

Base System	SKU
61000 Security System with AC power in a base configuration; includes Chassis, 2xCMM, 2xSSM160, 2xSGM260, fans and AC Power Supplies with 5 Software Blades (Firewall, VPN, Identity Awareness, Advanced Networking, Acceleration & Clustering blades)	CPAP-SG61005-NG-BASE
61000 Security System with DC power in a base configuration; includes Chassis, 2xCMM, 2xSSM160, 2xSGM260, fans, and DC Power Supplies with 5 Software Blades (Firewall, VPN, Identity Awareness, Advanced Networking, Acceleration & Clustering blades)	CPAP-SG61005-BASE-NG-DC
41000 Security System with AC power in a base configuration; includes Chassis, 2xCMM, 1xSSM160, 2xSGM260, fans, and AC Power Supplies with 5 Software Blades (Firewall, VPN, Identity Awareness, Advanced Networking, Acceleration & Clustering blades)	CPAP-SG41005-BASE
41000 Security System with DC power in a base configuration; includes Chassis, 2xCMM, 1xSSM160, 2xSGM260, fans, and DC Power Supplies with 5 Software Blades (Firewall, VPN, Identity Awareness, Advanced Networking, Acceleration & Clustering blades)	CPAP-SG41005-BASE-DC
Software Blades <sup>1</sup>	SKU
Next Generation Threat Extraction package for 1 year; includes Application Control, URL Filtering, IPS, Antivirus, Anti-Bot and SandBlast zero day protection	CPSB-NGTX-61000-1Y
Next Generation Threat Prevention Package for 1 year; includes Application Control, URL Filtering, IPS, Antivirus and Anti-Bot	CPSB-NGTP-61000-1Y
Next Generation Firewall Package for 1 year; includes Application Control and IPS	CPSB-NGFW-61000-1Y
Check Point IPS blade for 1 year	CPSB-IPS-XXL-1Y
Check Point Application Control blade for 1 year	CPSB-APCL-XXL-1Y
Check Point URL Filtering blade for 1 year	CPSB-URLF-XXL-1Y
Check Point Antivirus Blade for 1 year	CPSB-AV-XXL-1Y
Check Point Anti-Bot blade for 1 year	CPSB-ABOT-XXL-1Y
Check Point Mobile Access Blade for unlimited concurrent connections	CPSB-MOB-U
Data Loss Prevention (DLP) Blade for 1 year - for 61000 appliance	CPSB-DLP-XXL-1Y
Virtual Systems Packages	SKU
50 Virtual Systems package	CPSB-VS-50
50 Virtual Systems package for HA/VLS	CPSB-VS-50-VLS
25 Virtual Systems package	CPSB-VS-25
25 Virtual Systems package for HA/VLS	CPSB-VS-25-VLS
10 Virtual Systems package	CPSB-VS-10
10 Virtual Systems package for HA/VLS	CPSB-VS-10-VLS

<sup>1</sup> Two and three year SKUs are also available. See the online Product Catalog

## ACCESSORIES

Security Switch Modules	SKU
Security Switch Module SSM160 for 41000 and 61000 System with 8x10GbE and 2x40GbE fiber ports	CPAP-SSM160
SFP+ transceiver module for 10G fiber ports- long range (10GBase-LR) for CPAP-SSM160	CPAC-TR-10LR-SSM160-SFP+
SFP+ transceiver module for 10G fiber ports- short range (10GBase-SR) for CPAP-SSM160	CPAC-TR-10SR-SSM160-SFP+
QSFP transceiver module for 40G fiber ports- short range (40GBase-SR4) for CPAP-SSM160	CPAC-TR-40SR-SSM160-QSFP
QSFP transceiver module for 40G fiber ports- long range (40GBase-LR4) for CPAP-SSM160	CPAC-TR-40LR-SSM160-QSFP
QSFP splitter for 40G fiber ports- Short Range for CPAP-SSM160 - 3 Meter	CPAC-TR-40SPLIT-QSFP-3M
QSFP splitter for 40G fiber ports for CPAP-SSM160 - 6 meter	CPAC-TR-40SPLIT-QSFP-6M
SFP transceiver for 1G fiber port- short range (1000Base-SR) for CPAP-SSM160	CPAC-TR-1SX-SSM60/160-SFP
SFP transceiver for 1G fiber port- long range (1000Base -LX) for CPAP-SSM160	CPAC-TR-1LX-SSM60/160-SFP
1000Base-T (RJ45) transceiver to use with 10G SFP+ ports on CPAP-SSM160	CPAC-TR-1T-SSM60/160-SFP
Security Gateway Modules	
Security Gateway Module SGM260 with 64GB RAM for 41000 and 61000	CPAP-SGM260
61000 Miscellaneous	SKU
Check Point 61000 Chassis	CPAC-CHASSIS-61000-NG
Check Point 61000 Chassis with DC Power Supplies and Fans	CPAC-CHASSIS-61000-NG-DC
Additional/replacement 61000 Chassis Management Module CMM 100	CPAC-CMM100-NG
Replacement parts kit (including one AC Power Supply, one Fan) for 61000 Security System	CPAC-SPARE-61000-NG
Replacement parts kit (including one DC Power Supply, one Fan) for 61000 appliance	CPAC-SPARE-61000-NG-DC
Replacement AC Power Supply for 61000 Security System	CPAC-PSU-AC-61000-NG
Replacement DC Power Supply for 61000 Security System	CPAC-PSU-DC-61000-NG
Replacement fan for 61000 Security System	CPAC-SPARE-FAN-61000-NG
41000 Miscellaneous	SKU
Check Point 41000 Chassis	CPAC-CHASSIS-41000
Check Point 41000 Chassis with DC Power Supplies and Fans	CPAC-CHASSIS-41000-DC
Additional/replacement 41000 Chassis Management Module CMM 100	CPAC-CMM100-41K
Replacement parts kit (including one AC Power Supply, one Fan) for 41000 Security System	CPAC-SPARE-41000
Replacement parts kit (including one DC Power Supply, one Fan) for 41000 appliance	CPAC-SPARE-41000-DC
Replacement AC Power Supply for 41000 Security System	CPAC-PSU-AC-41000
Replacement DC Power Supply for 41000 Security System	CPAC-PEM-DC-41000
Replacement fan for 41000 Security System	CPAC-SPARE-FAN-41000

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