

# 6500 SECURITY GATEWAY



Check Point's 6500 Next Generation Firewall offers a fully integrated, unified solution tuned to deliver maximum security against 5th generation threats without compromising performance. 6500 Security Gateways provide the most advanced threat prevention security for demanding enterprise networks.



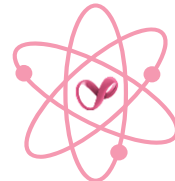
## Gen V Dexterity

AI Driven  
Threat Prevention



## Augmented SSL Inspection

Powerful Gateways to Manage  
Encrypted Traffic Inspection



## Bonded with Infinity Architecture

More than just  
Network Security

## PERFORMANCE HIGHLIGHTS

Gen II Security: Firewall	Gen III Security: NGFW <sup>1</sup>	Gen V Security: Threat Prevention + SandBlast <sup>2</sup>
20.6 Gbps	6.8 Gbps	3.4 Gbps

Performance measured with an enterprise testing conditions. Additional performance details on page 4. 1: Includes Firewall, Application Control, and IPS. 2: Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot and SandBlast Zero-Day Protection.

WELCOME TO THE FUTURE OF CYBER SECURITY

# 6500

## Enterprise-grade security, performance and reliability

The Check Point 6500 Next Generation Security Gateway combines the most comprehensive security protections to safeguard your mid-size enterprise.

The 6500 Turbo model is a 1U Next Generation Security Gateway with one I/O expansion slot for higher port capacity, redundant fans, redundant AC or DC power supply options, a 240 GB SSD disk, and optional Lights-Out Management (LOM) for remote management. This powerful Next Generation Security Gateway is optimized to deliver the most advanced threat prevention to secure your critical assets and environments.

## Key Features & Benefits

Advanced Threat Prevention .....	1 <sup>st</sup> time prevention of known and zero-day threats
Uncompromising Performance ....	Achieve up to 3.4 Gbps of threat prevention throughput
Secure Encrypted Traffic .....	Consolidate SSL inspection into one integrated security platform



## THE CYBER SECURITY ARCHITECTURE OF THE FUTURE

### Enterprise Security Gateways

#### ONE SECURITY PLATFORM

Leveraging unified threat  
intelligence  
and open interfaces

#### REAL-TIME THREAT PREVENTION

Blocking the most  
sophisticated attacks before  
they infiltrate the network

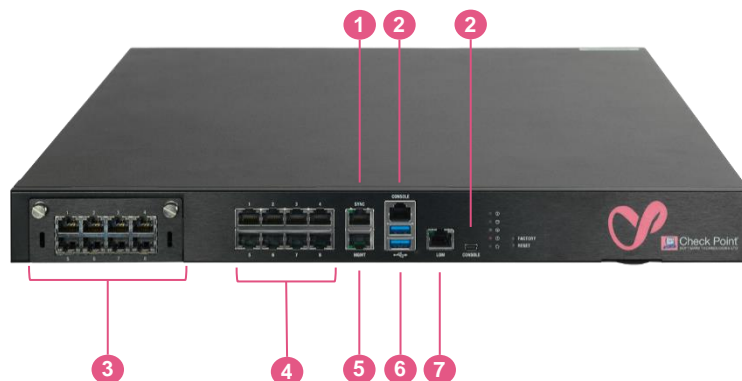
#### CONSOLIDATED MANAGEMENT

Single management,  
modular policy management  
and integrated threat  
visibility

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## 6500 SECURITY GATEWAY

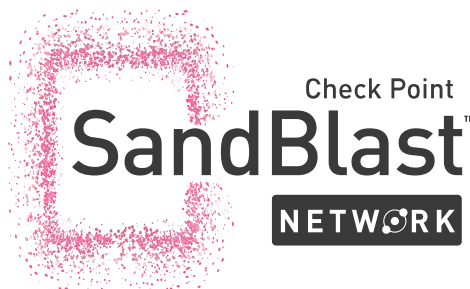
- 1 Sync 10/100/1000Base-T RJ45 port
- 2 RJ45/micro USB console port
- 3 One network card expansion slot
- 4 8x 10/100/1000Base-T RJ45 ports
- 5 Management 10/100/1000Base-T RJ45 port
- 6 2x USB ports for ISO installation
- 7 Lights-Out Management port



## SPOTLIGHT

### Prevent Known and Zero-day Threats

Zero-day protection offering network security with evasion-resistant malware detection and complete protection from the most advanced attacks, ensuring quick delivery of safe content to users.

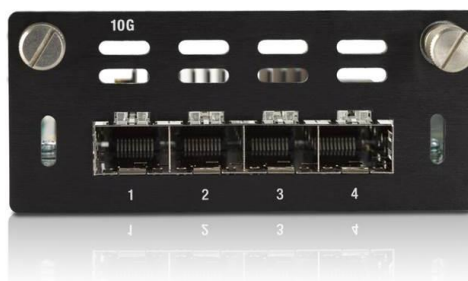


### Complete Security: Simple Offering

Flexible cost-effective bundles. Subscription and support offered together for NGFW, NGTP or NGTX (sandboxing) in either direct or collaborative premium support for 1, 3 or 5 years.

### Flexible I/O Options

The 6500 Turbo configuration includes 10 on-board 1 GbE copper ports. Add additional I/O as you like in the one expansion slot; 8x 1GbE copper, 4x 1GbE fiber, 4x 10GbE SFP+ or one of two Bypass (Fail-open) options.



### Remote Management and Monitoring

A Lights-Out Management (LOM) card provides out-of-band remote management to remotely diagnose, start, restart and manage the appliance from a remote location. Also use LOM for remote installs of the GAiA OS.

## ENTERPRISE-GRADE PLATFORM

		1 GbE (copper)	1 GbE (fiber)	10 GbE	Memory	Redundant Power	LOM
6500	Turbo	10	0	0	16 GB	●	●
	Maximums	18	4	4	32 GB	●	●

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## Performance

### Enterprise Testing Conditions

- 3.4 Gbps of Threat Prevention<sup>1</sup>
- 6.8 Gbps of NGFW<sup>2</sup>
- 7.8 Gbps IPS
- 20.6 Gbps of firewall throughput

### Ideal Testing Conditions

- 22.8 Gbps of UDP 1518 byte packet firewall throughput
- 4.3 Gbps of AES-128 VPN throughput
- 140,000 connections per second, 64 byte response
- 4/8M concurrent connections, 64 byte response<sup>3</sup>

1: Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot and SandBlast

Zero-Day Protection. 2: Includes Firewall, Application Control and IPS. 3: Performance

measured with default/maximum memory.

## Additional Features

### Highlights

- 1x CPU, 4x physical cores (total), 8x virtual cores (total)
- 1x 240 GB SSD storage
- 2 redundant AC power supplies, DC PSU option
- 16 GB memory, 32 GB option
- Lights-Out Management card
- Virtual Systems (default/max mem): 20/20

### Network Expansion Slot Options (1 of 1 slots open)

- 8x 10/100/1000Base-T RJ45 port card, up to 18 ports
- 4x 1000Base-F SFP port card, up to 4 ports
- 4x 10GBase-F SFP+ port card, up to 4 ports

## Content Security

### First Time Prevention Capabilities

- CPU-level, OS-level and static file analysis
- File disarm and reconstruction via Threat Extraction
- Average emulation time for unknown files that require full sandbox evaluation is under 100 seconds
- Maximal file size for Emulation is 100 MB
- Emulation OS Support: Windows XP, 7, 8.1, 10

### Applications

- Use 8,000+ pre-defined or customize your own applications
- Accept, prevent, schedule, and apply traffic-shaping

### Data Loss Prevention

- Classify 700+ pre-defined data types
- End user and data owner incident handling

## Content Security (continued)

### Dynamic User-based Policy

- Integrates with Microsoft AD, LDAP, RADIUS, Cisco pxGrid, Terminal Servers and with 3<sup>rd</sup> parties via a Web API
- Enforce consistent policy for local and remote users on Windows, macOS, Linux, Android and Apple iOS platforms

## Network

### Network Connectivity

- Total physical and virtual (VLAN) interfaces per appliance: 1024/4096 (single gateway/with virtual systems)
- 802.3ad passive and active link aggregation
- Layer 2 (transparent) and Layer 3 (routing) mode

### High Availability

- Active/Active L2, Active/Passive L2 and L3
- Session failover for routing change, device and link failure
- ClusterXL or VRRP

### IPv6

- NAT66, NAT64, NAT46
- CoreXL, SecureXL, VRRPv3

### Unicast and Multicast Routing (see sk98226)

- OSPFv2 and v3, BGP, RIP
- Static routes, Multicast routes
- Policy-based routing
- PIM-SM, PIM-SSM, PIM-DM, IGMP v2 and v3

## Physical

### Power Requirements

- Single Power Supply rating: 275W
- AC power input: 100 to 240V (47-63Hz)
- Power consumption max: 88.4W
- Maximum thermal output: 301.65 BTU/hr.

### Dimensions

- Enclosure: 1RU
- Dimensions (WxDxH): 17.24 x 20 x 1.73 in. (437.9 x 508 x 44mm)
- Weight: 17.53 lbs. (7.95 kg)

### Environmental Conditions

- Operating: 0° to 40°C, humidity 5% to 95%
- Storage: -20° to 70°C, humidity 5% to 95% at 60°C

### Certifications

- Safety: UL, CB, CE, TUV GS
- Emissions: FCC, IC, CE, VCCI, RCM/C-Tick
- Environmental: RoHS, WEEE, REACH<sup>1</sup>, ISO14001<sup>1</sup>

<sup>1</sup>. factory certificate

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## ORDERING 6500 SECURITY GATEWAYS

SECURITY APPLIANCE <sup>1</sup>	SKU
6500 Turbo configuration: includes 10x 1GbE copper ports, 16 GB RAM, 240GB SSD, 2x AC PSUs, Lights-Out Management (LOM).	CPAP-SG6500-TURBO

<sup>1</sup> 1, 3 and 5 year NGFW, NGTP and SandBlast (NGTX) packages with Direct Premium support are available in the online product catalog.

## Accessories

INTERFACE CARDS AND TRANSCEIVERS	
8 Port 10/100/1000 Base-T RJ45 interface card	CPAC-8-1C-C
4 Port 1000Base-F SFP interface card; requires additional 1000Base SFP transceivers	CPAC-4-1F-C
SFP transceiver module for 1G fiber ports - long range (1000Base-LX)	CPAC-TR-1LX-C
SFP transceiver module for 1G fiber ports - short range (1000Base-SX)	CPAC-TR-1SX-C
SFP transceiver to 1000 Base-T RJ45 (Copper)	CPAC-TR-1T-C
4 Port 10GBase-F SFP+ interface card	CPAC-4-10F-6500/6800-C
SFP+ transceiver module for 10G fiber ports - long range (10GBase-LR)	CPAC-TR-10LR-C
SFP+ transceiver module for 10G fiber ports - short range (10GBase-SR)	CPAC-TR-10SR-C
MEMORY	SKU
Memory upgrade kit from 16GB to 32GB for 6500 Security Gateways	CPAC-RAM16GB-6500
SPARES AND MISCELLANEOUS	SKU
AC power supply for 6500 Security Gateways	CPAC-PSU-AC-6500
DC power supply for 6500 Security Gateways	CPAC-PSU-DC-6500
Lights-Out Management module	CPAC-LOM-6500/6800-C
Slide rails for 6000 Security Gateways (22" - 32")	CPAC-RAILS-6000
Extended slide rails for 6000 Security Gateways (24" - 36")	CPAC-RAILS-EXT-6000

### 6500 SECURITY GATEWAY

- 1 Redundant AC or DC power supplies
- 2 Cooling fans

