

# 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.



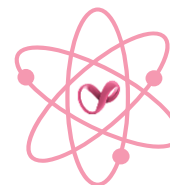
## Gen V Dexterity

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:<br>Firewall | Gen III Security:<br>NGFW <sup>1</sup> | Gen V Security:<br>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 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 1TB (HDD) or 240GB (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

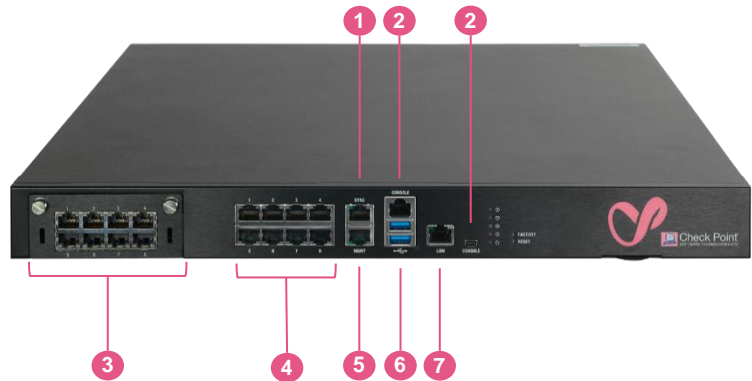
#### CONSOLIDATED MANAGEMENT

Single management,  
modular policy management  
and integrated threat  
visibility

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## 6500 SECURITY GATEWAY

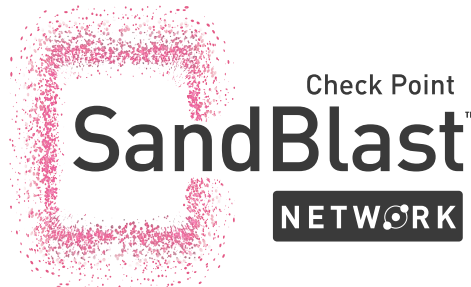
- 1 Sync 10/100/1000Base-T RJ45 port
- 2 RJ45/micro USB console port
- 3 One network card expansion slot
- 4 8x 10/100/1000Base-T RJ45 ports
- 5 Management 10/100/1000Base-T RJ45 port
- 6 2x USB ports for ISO installation
- 7 Lights-Out Management port



## 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.

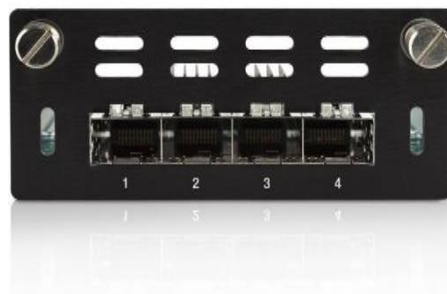


### All-inclusive Security Solutions

Every 6500 Security Gateway includes comprehensive Next Generation Threat Prevention in one of two hardware configurations; a base or a fully redundant, high performance option.

### Flexible I/O Options

The base 6500 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<br>GbE (copper) | 1<br>GbE (fiber) | 10<br>GbE | Memory | Redundant<br>Power | LOM |
|------|------|-------------------|------------------|-----------|--------|--------------------|-----|
| 6500 | Base | 10                | 0                | 0         | 8 GB   | ○                  | ○   |
|      | Plus | 10                | 0                | 0         | 16 GB  | ●                  | ●   |
|      | Max  | 18                | 4                | 4         | 32 GB  | ●                  | ●   |

○ this is optional

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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
- 2/4/8M concurrent connections, 64 byte response<sup>3</sup>

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

Zero-Day Protection with R80.20. 2: Includes Firewall, Application Control and IPS with R80.20.

3: Performance measured with Base/Plus/Max memory with R80.20.

## Additional Features

### Highlights

- 1x CPU, 4x physical cores (total), 8x virtual cores (total)
- 1x 1TB HDD or 240GB SSD storage
- 1 AC or DC power supply (2 redundant PSU option)
- 8, 16 and 32 GB memory options
- Lights-Out Management card is optional
- Virtual Systems (Base/Plus/Max mem): 10/20/20

### 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 and Active/Passive – Layer 3 mode
- 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

| BASE CONFIGURATION <sup>1</sup>  | SKU                        |
|--|----------------------------|
| 6500 Base configuration: 10x 1GbE copper ports, 8GB RAM, 1TB HDD, 1x AC PSU, NGTP Security Subscription for 1 Year, Local/Standalone Management for 2 Gateways | CPAP-SG6500                |
| 6500 Plus configuration: 10x 1GbE copper ports, 16 GB RAM, 240GB SSD, 2x AC PSUs, Lights-Out Management (LOM), NGTP Security Subscription for 1 Year           | CPAP-SG6500-PLUS           |
| SANDBLAST ZERO-DAY THREAT PROTECTION <sup>1</sup>  | SKU                        |
| Upgrade from NGTP to SandBlast (NGTX) in the 1st year, i.e. when purchasing CPAP-SG6500  | CPSB-UPG-6500-NGTX-1Y      |
| Upgrade from NGTP to SandBlast (NGTX) in the 1st year, i.e. when purchasing CPAP-SG6500-PLUS   | CPSB-UPG-6500-PLUS-NGTX-1Y |

<sup>1</sup> Virtual System extensions plus 1, 2, and 3 year renewals for NGTP, NGTX, NGFW, IPS and DLP are available in the online product catalog. The Base option will be available Q2 2019.

## 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 8GB to 16GB for 6500 Security Gateways                      | CPAC-RAM8GB-6500       |
| Memory upgrade kit from 8GB to 32GB for 6500 Security Gateways                      | CPAC-RAM24GB-6500      |
| Memory upgrade kit from 16GB to 32GB for 6500 Security Gateways                     | CPAC-RAM16GB-6500      |
| SPARES AND MISCELLANEOUS  | SKU                    |
| Additional/Replacement AC Power Supply for 6500 Security Gateways                   | CPAC-PSU-AC-6500       |
| Additional/Replacement DC power supply unit 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

