



QUANTUM

20 January 2025

6000 AND 7000 APPLIANCES

QS-15, QM-30, QS-2, QM-1, QM-2, QM-35

Getting Started Guide



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Important Information



Latest Software

We recommend that you install the most recent software release to stay up-to-date with the latest functional improvements, stability fixes, security enhancements and protection against new and evolving attacks.



Certifications

For third party independent certification of Check Point products, see the [Check Point Certifications page](#).



Check Point 6000 and 7000 Appliances

For more about this release, see the [home page](#).



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Feedback

Check Point is engaged in a continuous effort to improve its documentation.

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Revision History

Date	Description
19 March 2024	Updated a configuration option that lets you onboard an appliance using a QR code in the Service tag or by browsing to a website: • "Shipping Carton Contents" on page 28 • "Initial Configuration" on page 32 • "Service tag" on page 39

Date	Description
13 November 2023	Added "AC Power Cords" on page 50
23 February 2022	Rebranding - New Check Point logo
27 October 2020	Updated: • "Declaration of Conformity for 6000 and 7000 Appliances" on page 11 • "Shipping Carton Contents" on page 28 • Improved formatting and layout
12 August 2020	Updated information in "Mounting the Appliances in a Rack" on page 30
10 August 2020	Improved HTML formatting and layout
30 April 2020	Updated information for 6400, 6700, and 7000 appliances
14 January 2020	Updated information for 6200, 6600, and 6900 appliances
22 January 2019	First release of this document

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Safety, Environmental, and Electronic Emissions Notices

Read the following warnings before setting up or using the appliance.



Warning - Do not block air vents. A minimum 1/2-inch clearance is required.

Before you install or remove a chassis, or work near power supplies, turn off the power and unplug the power cord.

To prevent damage to any system board, it is important to handle it with care. The following measures are generally sufficient to protect your equipment from static electricity discharge:

- When handling the board, to use a grounded wrist strap designed for static discharge elimination.
- Touch a grounded metal object before removing the board from the antistatic bag.
- Handle the board by its edges only. Do not touch its components, peripheral chips, memory modules or gold contacts.
- When handling processor chips or memory modules, avoid touching their pins or gold edge fingers.
- Restore the communications appliance system board and peripherals back into the antistatic bag when they are not in use or not installed in the chassis. Some circuitry on the system board can continue operating even though the power is switched off.
- Under no circumstances should the lithium battery cell used to power the real-time clock be allowed to short. The battery cell may heat up under these conditions and present a burn hazard.



Warning - DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

- Disconnect the system board power supply from its power source before you connect or disconnect cables or install or remove any system board components. Failure to do this can result in personnel injury or equipment damage.
- Avoid short-circuiting the lithium battery; this can cause it to superheat and cause burns if touched.
- Do not operate the processor without a thermal solution. Damage to the processor can occur in seconds.
- Class 1 laser product warning - A totally enclosed laser system containing a class 1 laser.

This device is not intended for use in the direct field of view at visual display workplaces. To avoid incommoding reflexions at visual display workplaces this device must not be placed in the direct field of view.

Rack Mount Instructions

The following or similar rack-mount instructions are included with the installation instructions:

1. Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature specified by the manufacturer.
2. Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
3. Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
4. Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on over current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
5. Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

For California:

Perchlorate Material - special handling may apply. See <http://www.dtsc.ca.gov/hazardouswaste/perchlorate>

The foregoing notice is provided in accordance with California Code of Regulations Title 22, Division 4.5, Chapter 33. Best Management Practices for Perchlorate Materials. This product, part, or both may include a lithium manganese dioxide battery which contains a perchlorate substance.

Proposition 65 Chemical

Chemicals identified by the State of California, pursuant to the requirements of the California Safe Drinking Water and Toxic Enforcement Act of 1986, California Health & Safety Code s. 25249.5, et seq. ("Proposition 65"), that is "known to the State to cause cancer or reproductive toxicity" (see <http://www.calepa.ca.gov>)

WARNING:

Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling.

Caution

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Caution!

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

Information to user:

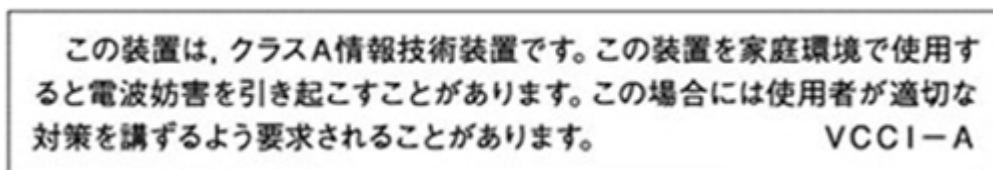
The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

Canadian Department Compliance Statement:

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Japan Compliance Statement:

Class A



European Union (EU) Electromagnetic and Safety Compatibility Directives - 6200, 6400, 6500, 6600, 6700, 6800, 6900, and 7000 Appliances

This product is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility Directives 2004/108/EC and 2014/30/EU.

This product is in conformity with Low Voltage Directives 2006/95/EC and 2014/35/EU.

This product complies with the requirements in the Council Directives 2006/95/EC and 2014/35/EU relating to electrical equipment designed for use within certain voltage limits and the Amendment Directive 93/68/EEC.



Product Disposal

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office or your household waste disposal service.

Compliance Information

This appendix contains declaration of conformity, compliance, and related regulatory information.

Declaration of Conformity for 6000 and 7000 Appliances

Manufacturer's Name: Check Point Software Technologies Ltd.

Manufacturer's Address: 5 Shlomo Kaplan Street
Tel Aviv 6789159, Israel

Declare that under our sole responsibility the products

Model Number: QS-15, QM-30

Product Options: 6500, 6800

Date First Applied: January 2019

Conform to the following Product Specifications:

Category	Technical Specification	Description
EMC	FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 6-2016 ANSI C63.4-2014	Information Technology Equipment - Radio Disturbance Characteristics
	VCCI-CISPR 32: 2016	Information Technology Equipment - Radio Disturbance Characteristics
	AS/NZS CISPR 32: 2013 CISPR 32: 2012 (Ed 1.0)	Information Technology Equipment - Radio Disturbance Characteristics
	EN 55032: 2012/AC: 2013 Class A CISPR 32:2012	Information Technology Equipment - Radio Disturbance Characteristics
	EN 55024	
	EN 61000-3-2: 2014	Information Technology Equipment - Harmonics Characteristics
	EN 61000-3-3: 2013	Information Technology Equipment - Harmonics Characteristics
EMC	EN 55024: 2010+A1:2015	Immunity characteristics - Limits and methods of measurement

Category	Technical Specification	Description
	IEC 61000-4-2: 2008	Information Technology Equipment - Flicker Characteristics
	IEC 61000-4-3: 2006	Information Technology Equipment - Radiated RF Immunity
	IEC 61000-4-4	Information Technology Equipment - Fast Transient Immunity
	IEC 61000-4-5	Information Technology Equipment - Surge Immunity
	IEC 61000-4-6	Information Technology Equipment - Conducted RF Immunity
	IEC 61000-4-8	Information Technology Equipment - Power frequency magnetic field immunity test
	IEC 61000-4-11	Information Technology Equipment - Voltage Dips and Short Interruptions Immunity
	IEC 61000-4-12	Information Technology Equipment - Ring wave immunity test
RoHS	2011/65/EU	RoHS Directive
Safety	TUV GS / IEC 60950-1: 2005 (Second Edition)+Am 1:2009+Am 2: 2013	Information technology equipment. Safety General requirements, CE LVD
	EN 62368-1 : 2014	
	UL/ULc 60950-1	Information technology equipment Safety General requirements

Date and Place of issue: January, 2019, Tel Aviv, Israel - QS-15, QM-30

Model Number: QS-2, QM-1, QM-2, QM-35

Product Options: 6200, 6400, 6600, 6700, 6900, 7000

Date First Applied: January 2020

Category	Technical Specification	Description
EMC	FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 6-2016 ANSI C63.4-2014	Information Technology Equipment - Radio Disturbance Characteristics
	VCCI-CISPR 32: 2016	Information Technology Equipment - Radio Disturbance Characteristics
	AS/NZS CISPR 32: 2013 CISPR 32: 2012 (Ed 1.0)	Information Technology Equipment - Radio Disturbance Characteristics
	EN 55032: 2012/AC: 2013 Class A CISPR 32:2012	Information Technology Equipment - Radio Disturbance Characteristics
	EN 55024	
	EN 61000-3-2: 2014	Information Technology Equipment - Harmonics Characteristics
	EN 61000-3-3: 2013	Information Technology Equipment - Harmonics Characteristics
	EN 55024: 2010+A1:2015	Immunity characteristics - Limits and methods of measurement
	IEC 61000-4-2: 2008	Information Technology Equipment - Flicker Characteristics
	IEC 61000-4-3: 2006	Information Technology Equipment - Radiated RF Immunity
	IEC 61000-4-4	Information Technology Equipment - Fast Transient Immunity
	IEC 61000-4-5	Information Technology Equipment - Surge Immunity
	IEC 61000-4-6	Information Technology Equipment - Conducted RF Immunity
	IEC 61000-4-8	Information Technology Equipment - Power frequency magnetic field immunity test

Category	Technical Specification	Description
RoHS	IEC 61000-4-11	Information Technology Equipment - Voltage Dips and Short Interruptions Immunity
	IEC 61000-4-12	Information Technology Equipment - Ring wave immunity test
	2011/65/EU	RoHS Directive
Safety	UL GS / IEC 60950-1: 2005 (Second Edition)+Am 1:2009+Am 2: 2013	Information technology equipment. Safety General requirements, CE LVD
	EN 62368-1 : 2014	
	UL/ULc 60950-1 UL 62368-1	Information technology equipment Safety General requirements

Date and Place of issue: January, 2020, Tel Aviv, Israel - QS-2, QM-1, QM-2, QM-35

European Union (EU) Electromagnetic and Safety Compatibility Directive

This product is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility Directives 2004/108/EC and 2014/30/EU.

This product is in conformity with Low Voltage Directives 2006/95/EC and 2014/35/EU.

This product complies with the requirements in the Council Directives 2006/95/EC and 2014/35/EU relating to electrical equipment designed for use within certain voltage limits and the Amendment Directive 93/68/EEC.

Federal Communications Commission (FCC) Notice (US)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Canadian Department Compliance Statement

This device complies with Industry Canada ICES-003 rules. Cet appareil est conforme aux normes NMB003 d'Industrie Canada.

Japan Class A Compliance Statement:

この装置は、クラス A 情報技術装置です。この装置と電波妨害を引き起こすことがあります。この場合を講ずるよう要求されることがあります。

This is a Class A product based on the standard of the Voluntary Control Council for Interference (VCCI). If this equipment is used in a domestic environment, radio interference may occur, in which case the user may be required to take corrective actions.

GS Safety Notice

Protective earthing is used as a safeguard	Ensure connection of the power cord to a socket-outlet with earthing connection, or equivalent
Restrict Access Area Instruction	It is recommended that equipment be installed only in a server room or computer room where access is: • Restricted to qualified service personnel or users familiar with restrictions applied to the location, reasons therefor, and any precautions required. • Only accessible by the use of a tool or lock and key, or other means of security, and is controlled by the authority responsible for the location.
Die Erdung dient als Sicherheitsmassnahme	Stellen Sie sicher, dass das Netzkabel an eine Steckdose mit Erdungsanschluss oder einem gleichwertigen Anschluss angeschlossen ist

Beschränken Sie die Zutrittsrechte!	Es wird empfohlen, Geräte nur in einem Server- oder Computerraum zu installieren, in dem Folgendes möglich ist: • Nur für qualifiziertes Servicepersonal oder Benutzer, die mit den Einschränkungen des Standorts, den Gründen dafür und den erforderlichen Vorsichtsmaßnahmen vertraut sind. • Nur mit einem Werkzeug, einem Schloss und einem Schlüssel oder einem anderen Sicherheitsmittel zugänglich und wird von der für den Standort zuständigen Behörde kontrolliert.
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CCC Note



标识的涵义: 设备仅适用于海拔2000M以下地区安全使用

BSMI Note

警告使用者：

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁶⁺)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
印刷電路板 (PCB).,.	○	○	○	○	○	○
電源模組., (power module).,	超出 0.1 wt %	○	○	○	○	○
金屬部件., (Metal Parts).	○	○	○	○	○	○
晶片電阻., (Chips).,	超出 0.1 wt %	○	○	○	○	○
備考1. “超出0.1 wt %”及“超出0.01 wt %”係指限用物質之百分比含量超出百分比含量基準值。., Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.,. 備考2. “○”係指該項限用物質之百分比含量未超出百分比含量基準值。., Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.,. 備考3. “-”係指該項限用物質為排除項目。., Note 3: The “-” indicates that the restricted substance corresponds to the exemption.,.						

Remarques relatives à la sécurité, l'environnement et les émissions électroniques

Avant de mettre en place ou d'utiliser l'appareil, veuillez lire les avertissements suivants.



Avertissement: ne pas obturer les aérations. Il faut laisser au moins 1,27 cm d'espace libre.

Avant d'installer ou retirer un châssis ou de travailler à proximité d'alimentations, mettez-le hors tension et débranchez le cordon d'alimentation.

Pour éviter d'endommager les cartes système, il est important de les manipuler avec soin. Les mesures suivantes sont généralement suffisantes pour protéger votre équipement contre les décharges d'électricité statique :

- Avant de manipuler la carte, portez aux poignet un bracelet antistatique relié à la terre.
- Touchez un objet métallique relié à la terre avant d'extraire la carte de son sachet antistatique.
- Ne tenez la carte que par ses bords. Ne touchez aucun composant, puce périphérique, module mémoire ou contact plaqué or.
- Lorsque vous manipulez des processeurs ou des modules mémoire, évitez de toucher leurs broches ou les pistes de contact dorées.
- Remettez dans leur sachet antistatique la carte système et les périphériques de l'appareil de communications lorsqu'ils ne sont pas utilisés ou installés dans le châssis. Certains circuits sur la carte système peuvent rester fonctionnels même si l'appareil est éteint.
- Il ne faut jamais court-circuiter la pile au lithium qui alimente l'horloge temps-réel. Elle risque de s'échauffer et de causer des brûlures.



Avertissement: DANGER D'EXPLOSION SI LA PILE EST MAL REMPLACÉE. NE REMPLACER QU'AVEC UN TYPE IDENTIQUE OU ÉQUIVALENT, RECOMMANDÉ PAR LE CONSTRUCTEUR. LES PILES DOIVENT ÊTRE MISES AU REBUT CONFORMÉMENT AUX INSTRUCTIONS DE LEUR FABRICANT.

- Débrancher l'alimentation de la carte système de sa source électrique avant de connecter ou déconnecter des câbles ou d'installer ou retirer des composants. À défaut, les risques sont d'endommager l'équipement et de causer des blessures corporelles.
- Ne pas court-circuiter la pile au lithium : elle risque de surchauffer et de causer des brûlures en cas de contact.
- Ne pas faire fonctionner le processeur sans refroidissement. Le processeur peut être endommagé en quelques secondes.
- Produit laser de classe 1 : un système laser totalement clos et contenant un laser de classe 1.

Cet appareil n'est pas prévu pour être utilisé dans le champ de vision direct des personnes occupant un bureau. Pour éviter toute gêne occasionnée par un éventuel reflet, cet appareil ne doit pas être placé dans le champ de vision direct des personnes occupant un bureau.

Instructions de montage en rack

Les instructions d'installation sont livrées avec les instructions de montage en rack ci-après (ou similaires) :

1. Fonctionnement à température plus élevée : si l'appareil est installé dans une armoire fermée ou un rack à plusieurs unités, la température du rack en fonctionnement peut être supérieure à la température ambiante de la pièce. Avant d'installer l'équipement, il faut donc s'assurer qu'il sera dans un environnement compatible avec la température ambiante maximale indiquée par le constructeur.
2. Circulation d'air réduite : l'installation dans un rack doit s'assurer de ne pas limiter la circulation de l'air nécessaire au bon fonctionnement de l'équipement.
3. Charge mécanique : lors du montage de l'équipement dans le rack, il faut faire attention à ne pas déséquilibrer l'ensemble. Un rack se remplit en commençant par le bas.
4. Surcharge : pour la connexion de l'équipement au circuit électrique, il faut vérifier les risques de surcharge et les éventuelles conséquences sur la protection contre les surcourants et sur le câblage électrique. Dans ce contexte, il faut tenir compte des informations mentionnées par la plaque technique de l'instrument.
5. Mise à la terre : les équipements montés en rack doivent être en permanence reliés à un terre fiable. Il faut faire particulièrement attention aux branchements qui ne vont pas directement à la source électrique (par exemple des multiprises).

Pour la Californie :

Matériau perchloraté : manipulation spéciale potentiellement requise. Voir <http://www.dtsc.ca.gov/hazardouswaste/perchlorate>

L'avis suivant est fourni conformément au California Code of Regulations, titre 22, division 4.5, chapitre 33. Meilleures pratiques de manipulation des matériaux perchloratés. Ce produit, cette pièce ou les deux peuvent contenir une pile au dioxyde de lithium manganèse, qui contient une substance perchloratée.

Produits chimiques « Proposition 65 »

Les produits chimiques identifiés par l'état de Californie, conformément aux exigences du California Safe Drinking Water and Toxic Enforcement Act of 1986 du California Health & Safety Code s. 25249.5, et seq. (« Proposition 65 »), qui sont « connus par l'état pour être cancérigène ou être toxiques pour la reproduction » (voir <http://www.calepa.ca.gov>)

AVERTISSEMENT :

La manipulation de ce cordon vous expose au contact du plomb, un élément reconnu par l'état de Californie pour être cancérigène, provoquer des malformations à la naissance et autres dommages relatifs à la reproduction. Se laver les mains après toute manipulation.

Attention

Toute modification non approuvée expressément par la garantie du présent appareil pourrait annuler le droit de l'utilisateur à faire fonctionner l'équipement.

Ce dispositif est conforme à la section 15 des réglementations de la FCC. Son fonctionnement est soumis aux deux conditions suivantes: (1) Cet appareil ne doit pas causer d'interférence préjudiciable et (2) Cet appareil doit tolérer toute interférence reçue, y compris celles qui pourraient causer un fonctionnement indésirable.

Attention !

Le fabricant n'est pas responsable des éventuelles interférences radio ou TV dues à des modifications non autorisées du présent équipement. Ces modifications pourraient annuler le droit de l'utilisateur à faire fonctionner l'équipement.

Ce dispositif est conforme à la section 15 des réglementations de la FCC. Son fonctionnement est soumis aux deux conditions suivantes: (1) Cet appareil ne doit pas causer d'interférence préjudiciable et (2) Cet appareil doit tolérer toute interférence reçue, y compris celles qui pourraient causer un fonctionnement indésirable.

Attention?!

Le fabricant n'est pas responsable des éventuelles interférences radio ou TV dues à des modifications non autorisées du présent équipement. Ces modifications pourraient annuler le droit de l'utilisateur à faire fonctionner l'équipement.

Information à l'intention de l'utilisateur :

Le manuel utilisateur ou le manuel d'instruction d'un dispositif rayonnant (intentionnel ou non) doit avertir que toute modification non approuvée expressément par la partie responsable de la conformité peut annuler le droit de faire fonctionner l'équipement. Si le manuel n'est pas fourni sous forme imprimée (par exemple sur le disque d'un ordinateur ou via Internet), les informations requises par cette section doivent être incluses dans ces versions du manuel, sous réserve que l'utilisateur soit raisonnablement capable d'y accéder.

Déclaration de conformité du département canadien :

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Déclaration de conformité pour le Japon :

Classe A

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

VCCI-A

Directives de l'Union européenne (UE) relatives à la compatibilité électromagnétique et à la sécurité - Appareils 6200, 6400, 6500, 6600, 6700, 6800 6900 et 7000

Ce produit est certifié conforme aux exigences de la directive du Conseil concernant le rapprochement des législations des États membres relatives aux directives sur la compatibilité électromagnétique (2004/108/CE et 2014/30/UE).

Ce produit est conforme aux directives basse tension 2006/95/CE et 2014/35/UE.

Ce produit satisfait aux exigences des directives 2006/95/CE et 2014/35/UE du Conseil relatives aux équipements électriques conçus pour être utilisés dans une certaine plage de tensions, selon les modifications de la directive 93/68/CEE.



Mise au rebut du produit

Ce symbole apposé sur le produit ou son emballage signifie que le produit ne doit pas être mis au rebut avec les autres déchets ménagers. Il est de votre responsabilité de le porter à un centre de collecte désigné pour le recyclage des équipements électriques et électroniques. Le fait de séparer vos équipements lors de la mise au rebut, et de les recycler, contribue à préserver les ressources naturelles et s'assure qu'ils sont recyclés d'une façon qui protège la santé de l'homme et l'environnement. Pour obtenir plus d'informations sur les lieux où déposer vos équipements mis au rebut, veuillez contacter votre municipalité ou le service de gestion des déchets.

Hinweise zu Sicherheit, Umwelt und elektronischen Emissionen

Lesen Sie die folgenden Warnhinweise durch, bevor Sie das Gerät einrichten oder verwenden.



Warnhinweis - Die Lüftungsschlitze müssen frei gehalten werden. Der Mindestabstand beträgt 0,5 Zoll (1,27 cm).

Schalten Sie das Gerät ab und ziehen Sie den Stecker, bevor Sie ein Gestell anbringen oder entfernen oder wenn Sie in der Nähe der Stromzufuhr arbeiten.

Es ist wichtig, dabei sorgfältig vorzugehen, um Schäden an den Systemplatinen zu vermeiden. Die folgenden Maßnahmen reichen in der Regel aus, um Ihre Anlage vor elektrostatischer Entladung zu schützen:

- Tragen Sie eine geeignete Erdungsmanschette gegen die statische Entladung, wenn Sie die Platine berühren.
- Berühren Sie einen geerdeten metallischen Gegenstand, bevor Sie die Platine aus der antistatischen Schutzhülle nehmen.
- Berühren Sie die Platine nur an den Rändern. Berühren Sie nicht die Komponenten, zugehörigen Chips, Speichermodule oder goldenen Kontakte.
- Wenn Sie mit Prozessor-Chips oder Speichermodulen arbeiten, berühren Sie nicht die Pins oder die goldenen Einsteckstellen am Rand der Platine.
- Wenn die Systemplatine des Kommunikationsgerätes nicht verwendet oder angebracht wird, verstauen Sie sie wieder in der antistatischen Schutzhülle. Einige der Schaltkreise auf der Systemplatine werden unter Umständen auch dann betrieben, wenn die Stromzufuhr unterbrochen wurde.
- An der Lithiumbatterie, die den Absolutzeitgeber betreibt, sollte unter keinen Umständen ein Kurzschluss möglich sein. In diesem Fall könnte sich die Batterie erhitzen und eine Verbrennungsgefahr darstellen.



Warnhinweis - EXPLOSIONSGEFAHR BEI NICHT ORDNUNGSGEMÄSS EINGESETZTER BATTERIE. NUR GEMÄSS HERSTELLEREMPFEHLUNGEN DURCH GLEICHEN ODER ÄQUIVALENTEN TYP ERSETZEN. GEBRAUCHTE BATTERIEN GEMÄSS HERSTELLERANWEISUNGEN ENTSORGEN.

- Trennen Sie die Stromversorgung der Systemplatine von der entsprechenden Stromquelle, bevor Sie Kabel ein- bzw. ausstecken oder Komponenten der Systemplatine entfernen. Wenn Sie dies nicht befolgen, können Personen verletzt und die Anlage beschädigt werden.
- Schließen Sie die Lithiumbatterie nicht kurz; dies kann zur Überhitzung der Batterie und bei Berühren zu Verbrennungen führen.

- Betreiben Sie den Prozessor nur mit einer geeigneten Lösung für die Wärmekontrolle. Der Prozessor kann innerhalb von wenigen Sekunden beschädigt werden.
- Produktwarnung Laserklasse 1 – ein vollständig geschlossenes Lasersystem mit einem Laser der Klasse 1.

Das Gerät ist nicht für den Einsatz im direkten Blickfeld von Bildschirmarbeitsplätzen geeignet. Das Gerät darf nicht im direkten Blickfeld von Bildschirmarbeitsplätzen angebracht werden, um ein unangenehmes Reflektieren zu vermeiden.

Anleitung zur Rackmontage

Die nachfolgende Anleitung zur Rackmontage ist Teil der Installationsanleitung:

1. Erhöhte Betriebsumgebung – Wenn das Gerät in einer geschlossenen Rackbaugruppe oder in einer Rackbaugruppe mit mehreren Einheiten installiert wird, ist die Umgebungsbetriebstemperatur des Racks unter Umständen höher als die Raumtemperatur. Deshalb sollte darauf geachtet werden, die Anlage in einer Umgebung zu installieren, die mit der vom Hersteller angegebenen Maximaltemperatur kompatibel ist.
2. Verringerter Luftstrom – Die Anlage sollte so in das Rack installiert werden, dass der für einen sicheren Betrieb der Anlage benötigte Luftstrom nicht beeinträchtigt wird.
3. Mechanische Ladung – Die Anlage sollte so im Rack installiert werden, dass keine Gefahr durch ungleichmäßig verteilte mechanische Ladung besteht.
4. Systemüberlastung – Es muss darauf geachtet werden, wie die Anlage an den Versorgungskreis angeschlossen ist, und wie sich eine Überlastung des Systems auf den Überstromschutz und die Versorgungskabel auswirken könnte. Bei diesem Thema sollte auf ein angemessenes Typenschild der Anlage geachtet werden.
5. Zuverlässige Erdung – Die rackmontierte Anlage muss sicher geerdet werden. Besondere Vorsicht ist bei Versorgungsanschlüssen geboten, die nicht direkt mit dem Netzstromkreis verbunden sind (z. B. beim Verwenden von Mehrfachsteckdosen).

Für Kalifornien:

Perchloratmaterial – Evtl. spezielle Handhabung erforderlich. Siehe <http://www.dtsc.ca.gov/hazardouswaste/perchlorate>

Der vorhergehende Hinweis gilt in Übereinstimmung mit dem „California Code of Regulations“ Titel 22, Abschnitt 4.5, Kapitel 33. Best Management Practices für Perchloratmaterialien. Dieses Produkt und/oder Teile davon umfassen eine Lithium-Mangandioxid-Batterie, die eine perchlorate Substanz enthält.

Proposition 65, Chemikalien

Chemikalien, die vom US-Bundesstaat Kalifornien gemäß den Anforderungen des „California Safe Drinking Water and Toxic Enforcement Act“ von 1986 (California Health & Safety Code s. 25249.5 ff., „Proposition 65“) als mögliche Ursache für Krebs oder eine fortpflanzungsgefährdende Toxizität eingestuft werden (siehe <http://www.calepa.ca.gov>)

WARNUNG:

Im Kabel dieses Produktes befindet sich Blei; diese Chemikalie wird vom US-Bundesstaat Kalifornien als mögliche Ursache für Krebs, Geburtsfehler oder Einschränkungen der Fortpflanzungsfähigkeit eingestuft. Waschen Sie sich anschließend die Hände.

Vorsicht

Sämtliche Änderungen oder Modifikationen, die nicht ausdrücklich in der Garantieerklärung dieses Geräts gestattet werden, führen möglicherweise zum Erlöschen der Betriebserlaubnis des Benutzers.

Diese Anlage erfüllt Teil 15 der FCC-Regeln. Der Betrieb unterliegt den folgenden zwei Beschränkungen: (1) Das Gerät verursacht keine schädlichen Interferenzen und (2) Dieses Gerät toleriert alle empfangenen Störungen, einschließlich der Störungen, die einen unerwünschten Betrieb zur Folge haben.

Vorsicht!

Der Hersteller ist für keinerlei Störungen des Radio- oder Fernsehempfangs verantwortlich, die durch nicht genehmigte Änderungen dieser Anlage hervorgerufen werden. Derartige Änderungen können zu einem Entzug der Betriebserlaubnis für diese Anlage führen.

Benutzerinformationen:

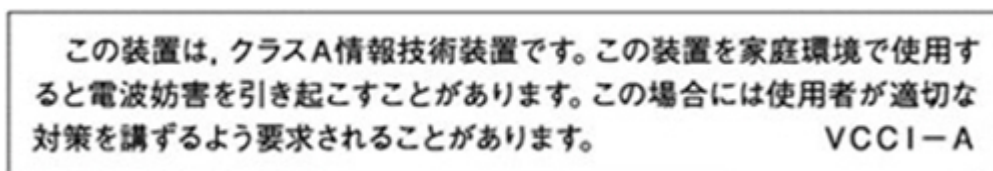
Die Betriebs- oder Gebrauchsanleitung eines beabsichtigten oder unbeabsichtigten Radiators dienen dazu, den Benutzer vor Änderungen oder Umrüstungen zu warnen, die nicht ausdrücklich von der zuständigen Stelle für Konformität genehmigt wurden, da diese zu einem Entzug der Betriebserlaubnis für diese Anlage führen können. Wenn das Handbuch nur in anderer als gedruckter Form zur Verfügung steht, zum Beispiel auf einer Computerfestplatte oder über das Internet, ist die gemäß diesem Abschnitt erforderliche Information im Handbuch möglicherweise in dieser alternativen Form enthalten, sofern vom Benutzer erwartet werden kann, dass er auf Informationen dieser Form Zugriff hat.

Konformitätserklärung des Kanadischen Ministeriums:

Dieses digitale Gerät der Klasse A erfüllt die kanadische Norm ICES-003. Dieses digitale Gerät der Klasse A erfüllt die kanadische Norm NMB-003.

Konformitätserklärung Japan:

Klasse A



Richtlinien der Europäischen Union (EU) bezüglich elektromagnetischer Verträglichkeit und Sicherheit - Geräte 6200, 6400, 6500, 6600, 6700, 6800, 6900 und 7000

Hiermit wird erklärt, dass dieses Produkt mit den Auflagen der Richtlinie des Europäischen Rates bezüglich zur Angleichung der Rechtsvorschriften der Mitgliedstaaten im Hinblick auf die Richtlinien über elektromagnetische Verträglichkeit (2004/108/EG) und 2014/30/EU konform ist.

Dieses Produkt ist mit den Niederspannungsrichtlinien 2006/95/EG 2014/35/EU konform.

Dieses Produkt ist mit den Richtlinien des Rates 2006/95/EG und 2014/35/EU konform betreffend elektrischer Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen und der Änderungsrichtlinie 93/68/EWG.



Produktentsorgung

Dieses Symbol auf dem Produkt oder dessen Verpackung gibt an, dass das Produkt nicht zusammen mit Restmüll entsorgt werden darf. Es obliegt daher Ihrer Verantwortung, das Gerät an einer entsprechenden Stelle für die Entsorgung oder Wiederverwertung von Elektrogeräten aller Art abzugeben. Die separate Sammlung und das Recyceln Ihrer alten Elektrogeräte zum Zeitpunkt ihrer Entsorgung trägt zum Schutz der Umwelt bei und gewährleistet, dass die Geräte auf eine Art und Weise recycelt werden, die keine Gefährdung für die Gesundheit des Menschen und der Umwelt darstellt. Weitere Informationen darüber, wo Sie alte Elektrogeräte zum Recyceln abgeben können, erhalten Sie bei den örtlichen Behörden, den Wertstoffhöfen oder dort, wo Sie das Gerät erworben haben.

Introduction

Welcome

Congratulations on your new 6000/7000 appliance. We hope that you will be satisfied with this Security Gateway and our support services. Check Point products provide your business with the most up to date and secure solutions available today.

Check Point also delivers worldwide technical services including educational, professional and support services through a network of Authorized Training Centers, Certified Support Partners and Check Point technical support personnel to ensure that you get the most out of your security investment.

For additional information on the Internet Security Product Suite and other security solutions, refer to the Check Point [web site](#), or call Check Point at 1(800) 429-4391. For additional technical information about Check Point products, consult the [Check Point Support Center](#).

Welcome to the Check Point family. We look forward to meeting all of your current and future network, application and management security needs.

6000 and 7000 Series Appliance Overview

Check Point Appliances pioneer Gen V Cyber Security equipped with Intel's latest multi-core technologies, increased encrypted traffic inspection performance, and lightning fast networking technologies - all optimized to provide the highest security effectiveness and performance for mid to large size enterprise security networks.

Strengthening Check Point Infinity Architecture, the new 6000/7000 series appliances deliver consolidation and security across any network, cloud, and mobile environment with full threat visibility and control.

The new 6000/7000 series appliances are optimized for fifth generation cyber threats and the increased portion of HTTPS (SSL) encrypted traffic. By consolidating multiple security technologies into a single Security Gateway, these appliances are engineered to deliver the most advanced and integrated cyber security to meet all of your business needs today and in the future.

The Check Point 6000/7000 series comes with a first year subscription to the full SandBlast Prevention suite.

Shipping Carton Contents

This section describes the contents of the shipping carton.

Item	Description
Appliance	6000/7000 appliance
Rack Mounting Accessories	• Telescopic rails for 6600, 6700, 6800, 6900, and 7000 appliances • Fixed rails and mount ears for 6200, 6400, and 6500 appliances • Rack mounting screws • Ear bracket screws
Cables and Adapters	• 1 power cable for 6200 Base, 6700 Base, 7000 Base appliances • 2 power cables for 6200 Plus/Turbo, 6400 Base/Plus, 6600 Plus, 6700 Plus, 6900 Plus, 7000 Plus appliances • 1 or 2 power cables for 6500, 6600 Base, 6800, and 6900 Base appliances (2 cables are supplied if an optional dual redundant hot-swappable power supply is purchased) • Power cable restraints • 1 standard RJ-45 network cable • 1 RJ-45 to DB9 serial console cable • 1 miniUSB to USB serial console cable (6500 and 6800 appliances) • 1 USB Type-C serial console cable (6200, 6400, 6600, 6700, 6900, and 7000 appliances) • 1 RJ-45 loopback adapter • 1 HDD/SSD tray lock key (6800 appliances)
Documentation	Your appliance comes with one of these sets of documentation: • Quick Start Guide • Rack Mounting Guide • Image Management Guide (only applicable if the software image contains more than one release) • User license agreement • Battery Warning document (6200, 6400, 6600, 6700, 6900, and 7000 appliances)

Item	Description
	Or • Welcome to Check Point QR Page • Battery Warning document (6200, 6400, 6600, 6700, 6900, and 7000 appliances)



Note - DB9 connectors are also known as DE9 connectors.

Terminology

The following terms are used in this guide:

- **Security Gateway:** The security engine that enforces the organization's security policy and acts as a security enforcement point.
- **Security Policy:** The Policy created by the system administrator that regulates the flow of incoming and outgoing communication.
- **Security Management Server:** The server used by the system administrator to manage the Security Policy. The organization's databases and Security Policies are stored on the Security Management Server and downloaded to the Security Gateway.
- **SmartConsole:** GUI applications that are used to manage various aspects of Security Policy enforcement.
- **Locally Managed Deployment:** When all Check Point components responsible for both the management and enforcement of the Security Policy (the Security Management Server and the Security Gateway) are installed on the same machine.
- **Centrally Managed Deployment:** When the Security Gateway and the Security Management Server are installed on separate machines.

Mounting the Appliances in a Rack

You can install your 6000/7000 appliance with the fixed or telescopic rails hardware depending on the appliance model. For the procedure, see the .

Appliance Physical Specifications

These are the physical specifications of the Check Point appliance.

Appliance	Regulated Model	Width	Depth	Height	Maximum Operating Temperature	Electrical Specifications
6200 6400	QS-2	17.24 in (43.80 cm)	20 in (50.80 cm)	1.73 in (4.40 cm) (1U)	32° to 104°F 0° to 40°C	100-240V~ 47-63Hz 2.5A - 1.5A
6500	QS-15	17.24 in (43.80 cm)	20 in (50.80 cm)	1.73 in (4.40 cm) (1U)	32° to 104°F 0° to 40°C	100-240V~ 47-63Hz 0.97A - 0.61A
6600 6700	QM-1	17.24 in (43.80 cm)	20 in (50.80 cm)	1.73 in (4.40 cm) (1U)	32° to 104°F 0° to 40°C	100-240V~ 47-63Hz 5A - 2.5A
6800	QM-30	17.24 in (43.80 cm)	20 in (50.80 cm)	1.73 in (4.40 cm) (1U)	32° to 104°F 0° to 40°C	100-240V~ 47-63Hz 1.67A - 0.81A
6900	QM-2	17.24 in (43.80 cm)	20 in (50.80 cm)	1.73 in (4.40 cm) (1U)	32° to 104°F 0° to 40°C	100-240V~ 47-63Hz 5A - 2.5A
7000	QM-35	17.24 in (43.80 cm)	22.83 in (58.00 cm)	1.73 in (4.40 cm) (1U)	32° to 104°F 0° to 40°C	100-240V~ 47-63Hz 5A - 2.5A

Appliance Air Vents

Make sure that the appliance air vents have sufficient airflow from front to rear when the appliance is mounted in a rack.

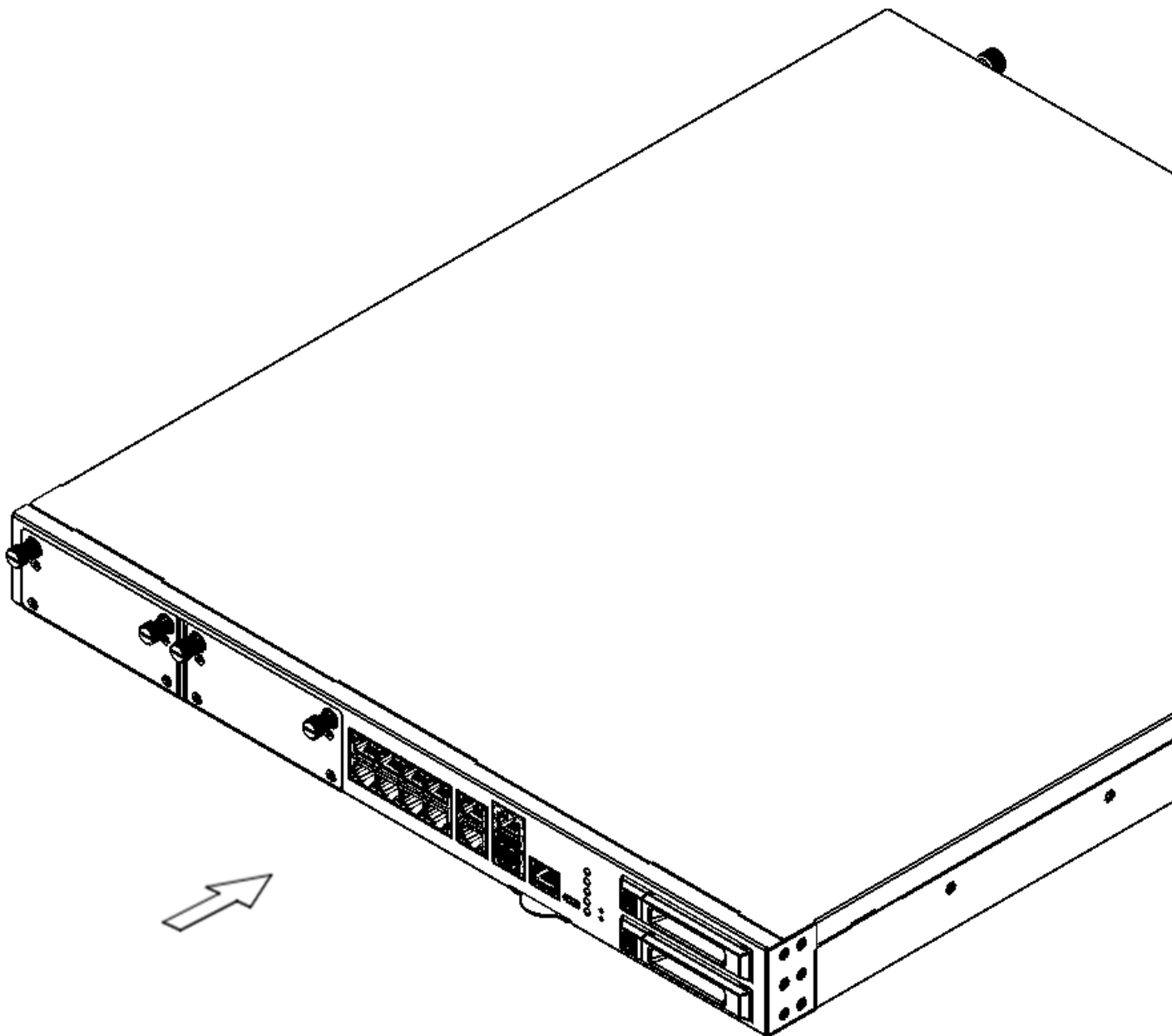


Important - If the appliance vents are blocked, the appliance can become too hot and it can be damaged.

Warning - This is a Class A product. It may cause electromagnetic interference. You may be required to take practical measures against the interference.

The appliance and rack rails have been tested in extreme conditions and do not block air flow to the appliance. These appliances are specifically designed to install with these rails.

The air flow in 6000 and 7000 appliances (appliance shown is 7000):



Configuring the Appliances

Initial Configuration

These are the initial configuration methods you can use:

- Interactive (this is the recommended method) - Select one of these:
 - Scan the QR code located on the "Service tag" on page 39 and follow the instructions. Alternatively, browse to <https://welcome.checkpoint.com> if there is no QR code on the Service tag and follow the instructions.
 - If your appliance came with the Welcome to Check Point QR Page, scan the QR code and follow the instructions that appear.
- Legacy - Connect the appliance according to the instructions in the . In the section *Set Up Your Appliance*, follow *Option #2*. Then, configure the appliance with the First Time Configuration Wizard.
 - See the [Gaia Administration Guide](#) for your version.
 - In the section *Installing a Security Gateway > Configuring Gaia for the First Time*, follow the instructions for the First Time Configuration Wizard.

Starting the Appliance

Connect the appliance to a power source and turn on the appliance. When the appliance is ready, you can do the First Time Configuration Wizard to configure it.

To start the appliance:

Connect the power cable(s) to the power supply unit(s) in the rear panel.

The appliance turns on.

In appliances with two power supply units installed:



Note - When a power supply unit is not connected to the outlet or is taken out of the appliance, an alarm sounds continuously. It will continue to beep until power is restored (cord or power supply unit is replaced) or the alarm is turned off.

To turn off the alarm, press the red Alarm off button on the rear panel of the appliance. In 6200 and 6400 appliances, press the Locator/Alarm off button on the front panel.

Available Software Images

The 6000 and 7000 appliances come with different software images. See the 6000 and 7000 Appliances [home page](#).

Reverting to a software image takes a few minutes. To follow progress and see when the appliance is ready, connect to the appliance using a serial console.

Synchronizing RAID on 6800, 6900, and 7000 Appliances

6800, 6900, and 7000 appliances support two storage devices.

For appliances with two storage devices, the appliance uses RAID1 mirroring across both storage devices. This lets the appliance continue to work if there is a storage device failure.

The mirror rebuild is automatic. Both storage devices must be the same type.

First Boot Up on a 6800, 6900, or 7000 Appliance with Two Storage Devices

At first boot up, wait a few hours to let the storage devices fully synchronize. If you reboot the appliance before the storage devices are synchronized, the synchronization starts again from scratch at the next boot.

To monitor the RAID status of the storage devices from the CLI:

1. Log in to the appliance.

2. Run:
`raid_diagnostic`

The output shows data about the RAID and storage devices, with the percent of synchronization completed.

DiskID 0 is the top storage device. DiskID 1 is the bottom storage device.

After first boot and replacing a second storage device, the RAID State (in the VolumeID line) shows DEGRADED (this indicates that the drives are not synchronized). The DiskID:0 state shows ONLINE and the DiskID:1 state shows INITIALIZING.

After the RAID is synchronized, the RAID state (in the VolumeID line) shows OPTIMAL (this indicates that the drives are synchronized). The DiskID:0 and DiskID:1 state show ONLINE.

Example 1: RAID status for fully synchronized storage devices (disk size and vendor may vary):

```
Server123> raid_diagnostic
Raid status:
VolumeID:0 RaidLevel: RAID-1 NumberOfDisks:2 RaidSize:465GB
State:OPTIMAL Flags:ENABLED
DiskID:0 DiskNumber:0 Vendor:ATA ProductID:HGST HTE25050A7 Revision:GS20 Size:465GB State:ONLINE Flags:NONE
DiskID:1 DiskNumber:1 Vendor:ATA ProductID:HGST HTE25050A7 Revision:GS20 Size:465GB State:ONLINE Flags:NONE
```

Example 2: RAID status for one fully synchronized storage device and another device that was removed (disk size may vary):

```

Server123> raid_diagnostic
Raid status:
VolumeID:0 RaidLevel: RAID-1 NumberOfDisks:2 RaidSize:465GB
State:DEGRADED Flags:VOLUME_INACTIVE
DiskID:0 DiskNumber:0 Vendor:NONE ProductID:NONE Revision:NONE
Size:0GB State:MISSING Flags:NONE
DiskID:1 DiskNumber:1 Vendor:ATA ProductID:HGST HTE25050A7 Revi-
sion:GS2O Size:465GB State:ONLINE Flags:NONE

```

To monitor the RAID status from the WebUI:

1. Log in to the Gaia Portal.
2. From the left navigation tree, click Maintenance > RAID Monitoring.

The window shows volume and disk information.

RAID Volumes

State	Volume ID	Type	Disks	Size
✓ OPTIMAL	0	RAID-1	2	465GB

RAID Volume Disks

State	Id	Number	Vendor	Product	Revision	Size	Flags
✓ ONLINE	0	0	ATA	HGST HTE725...	GS2O	465GB	NONE
✓ ONLINE	1	1	ATA	HGST HTE725...	GS2O	465GB	NONE

To monitor the RAID status from SmartConsole on versions R80.10 and higher:

1. In SmartConsole, open the Gateways & Servers view.
2. Right-click the Security Gateway that represents the appliance and select Monitor.
3. Click System Information.
4. Click RAID Volumes.

The window shows volume and disk information.

RAID Volumes

Volume ID	Type	Disks	Size	State	Flags
0	RAID-1	2	465 GB	Optimal	Enabled

RAID Volume Disks

Volume ID	ID	Number	Vendor	Product	Revision	Size	State	Flags	Sync stat
0	0	0	ATA	HGST HTE725050A7	GS20	465 GB	Online		100%
0	1	1	ATA	HGST HTE725050A7	GS20	465 GB	Online		100%

To monitor the RAID status of the storage devices using SNMP:

Set up SNMP traps to send information about the RAID.

Use OID: 1.3.6.1.4.1.2620.1.6.7.7

For more about how to configure the SNMP settings on the appliance, see the *Gaia Administration Guide* for the applicable version.

To hot swap a storage device:

1. Make sure that there is at least one fully synchronized storage device in the system (state=ONLINE).
2. When the system is up, remove the failed storage device.
 1. If necessary, use the key in the accessories bag to unlock the storage device.
 2. Move the release latch to the left.

The extraction handle pops out.

3. Hold the extraction handle and carefully pull the storage device casing to remove the storage device from the appliance.

Important- Be careful when you pull the ejector handle to remove the storage device from the appliance. If you pull too hard on the ejector handle, it can break off from the storage device casing.

3. Wait 15 seconds.

The appliance recognizes that you removed a storage device. See example 2 above.

4. Install a new storage device.
 1. Insert the replacement storage device into the slot.
 2. Push the extraction handle until it closes and the device clicks into position.

Software RAID is activated and the appliance synchronizes the storage devices. The first synchronization can continue for over an hour. If you reboot or turn off the appliance before the storage devices are synchronized, the synchronization starts again from scratch at the next boot.

5. Monitor the RAID status.

Creating the Network Object

Configure the 6000/7000 Appliance object as a Security Gateway object in the Security Management Server database.

1. Connect with SmartConsole (R80.10 or higher) to the Management Server.
2. Configure a new Security Gateway object for the appliance.
3. Enter the IP address for the appliance.
4. For a centrally managed deployment, establish Secure Internal Communication (SIC) between the Security Gateway and the Security Management Server. Enter the activation key you used in the First Time Configuration Wizard.
5. Configure the topology.
6. Configure and install the Security Policy.

Advanced Configuration

You can configure advanced options on Gaia from the Portal or the CLI.

Connecting to the 6000/7000 Appliances CLI

To connect to the command line interface of a 6000/7000 appliance, use one of these:

- An SSH connection to the management interface (if SSHD is configured).
- A serial console cable and terminal emulation software, such as PuTTY (from Windows) or Minicom (from Unix/Linux).

6000/7000 Appliances support these serial console connectivity options:

- Mini USB - Using the included mini USB to USB console cable in 6500/6800 appliances.
- USB Type-C - Using the included USB Type-C console cable in 6200, 6400, 6600, 6700, 6900, and 7000 appliances.
- RJ45 - Using the included RJ-45 to DB9 serial console cable.

Connection parameters are: 9600bps, 8 bits, no parity, 1 stop bit (8N1), Flow Control - None.

If you use both the mini USB/USB Type-C (depending on the appliance) and RJ45 console ports, the mini USB port/USB Type-C has priority. To use the RJ45 port, disconnect the mini USB/USB Type-C console cable.

When you have completed using the RJ45 port, reconnect the miniUSB/USB Type-C console cable.

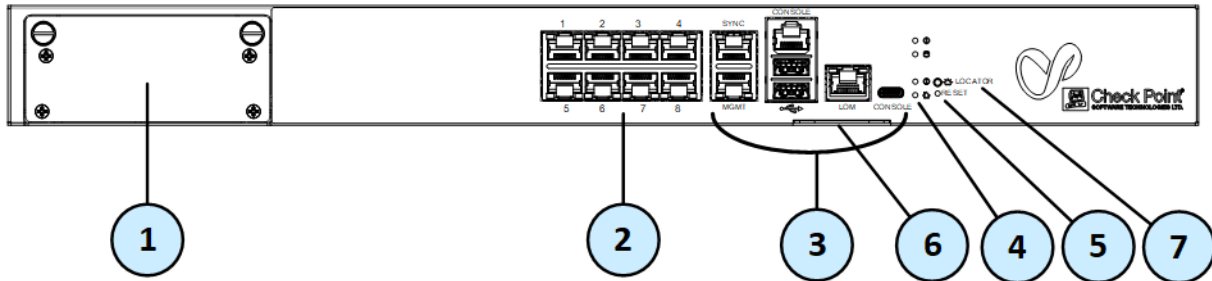


Note - To use the miniUSB/USB Type-C console port, a driver must be installed on the console client machine (desktop/laptop). For installation instructions and download link, see the appliance [home page](#).

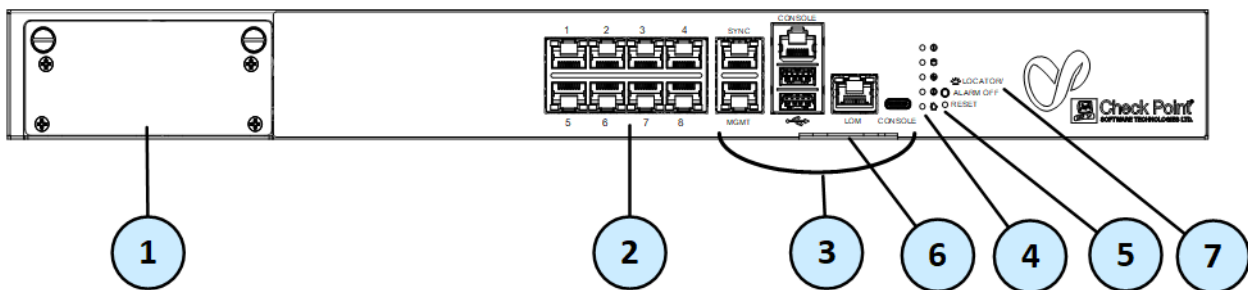
6000/7000 Appliances Hardware

Front Panel

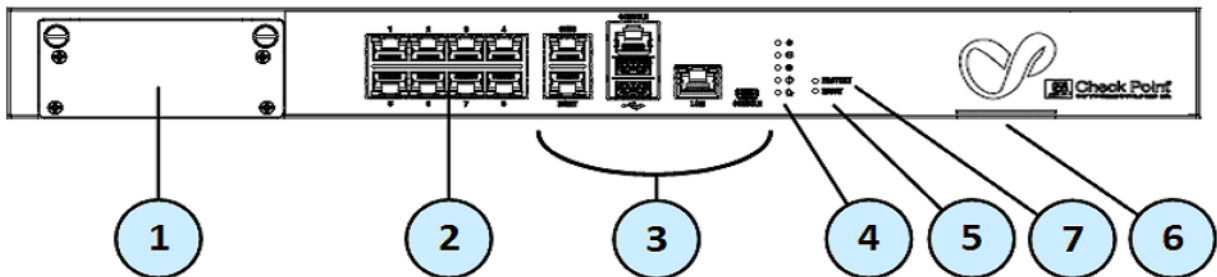
6200 Base



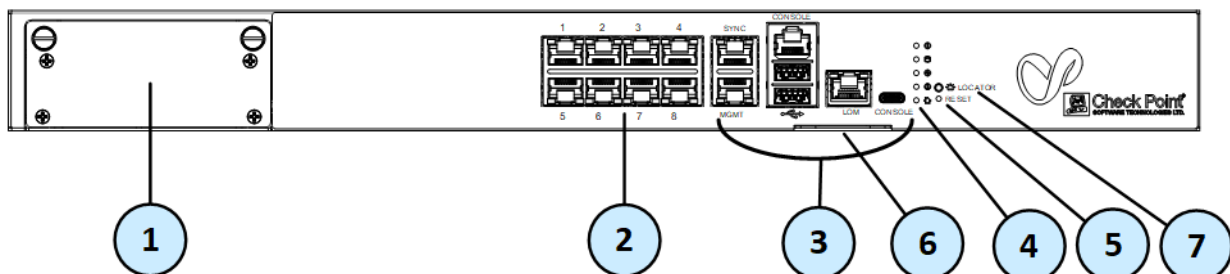
6200 Plus/Turbo and 6400 Base/Plus



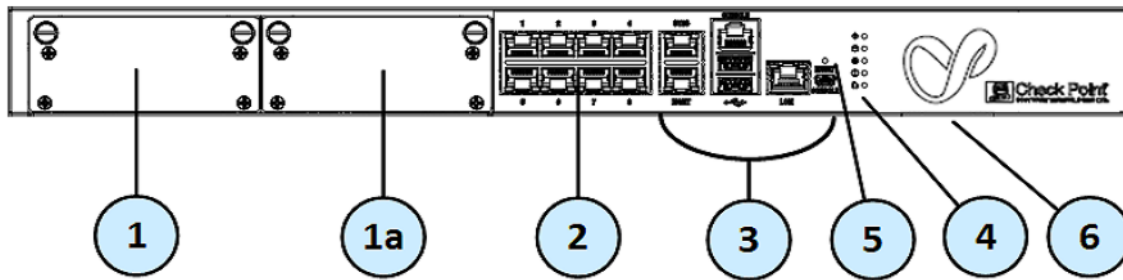
6500



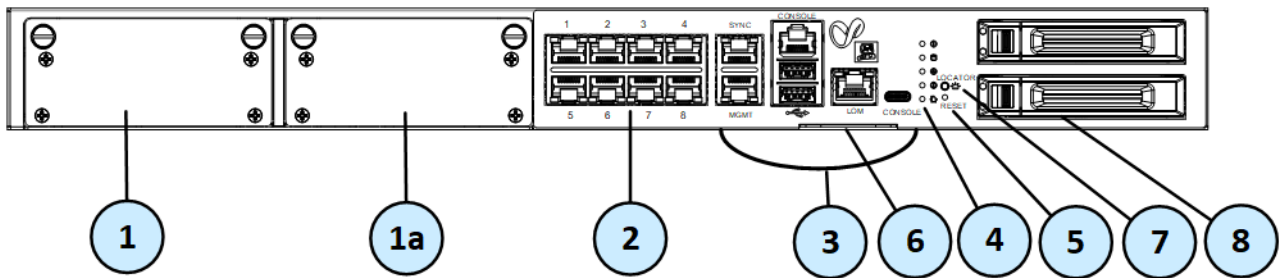
6600 Base/Plus and 6700 Base/Plus



6800



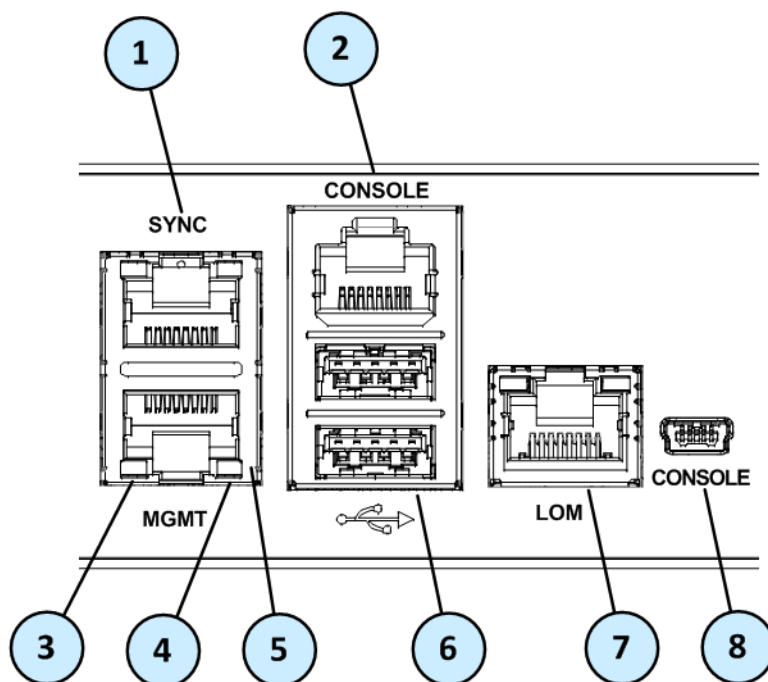
6900 Base/Plus and 7000 Base/Plus



Item	Component	Description
1	Expansion line card	Expansion slot. This expansion slot is assigned eth1-0x in the OS.
1a	Expansion line card	6800, 6900, and 7000 appliances only - Expansion slot. This expansion slot is assigned eth2-0x in the OS.
2	On board LAN ports	Eight 10/100/1000Base-T RJ-45 ports. These expansion slots are assigned eth1-eth8 in the OS.
3	Appliance ports	See "Front Panel Ports" on the next page - Use these ports to connect to the appliance.
4	System LEDs	See "Front Panel System LEDs" on page 41.
5	Reset	Insert a pin for 5 to 8 seconds to perform a hardware reset.
6	Service tag	A slide out card that identifies the appliance and shows its serial number, MAC address, and model number. In some appliances, it also contains a QR code that you can scan to onboard the appliance and view documentation.
7	Factory reset / Locator / Alarm Off	6200 Base, 6600, 6700, 6900, and 7000 appliances - Locator - Press the button to turn the Location beacon LED on and off in the appliance.

Item	Component	Description
		6200 Plus/Turbo and 6400 appliances - Provides Locator and Alarm Off functionalities. - Locator - Press the button to turn the Location beacon LED on and off in the appliance. - Alarm Off - Press and hold it to turn off the sounding alarm when there is a PSU failure. 6500 appliances - Factory reset - Press and hold to restore the appliance to its factory defaults. 6800 appliances - See "Restoring Factory Defaults" on page 53.
8	Storage devices	6900 and 7000 appliances only - When monitoring the storage devices with the <code>raid_diagnostic</code> command, <code>DiskID 0</code> is the top storage device, and <code>DiskID 1</code> is the bottom (numbered 1 and 2 on the appliance's chassis).

Front Panel Ports

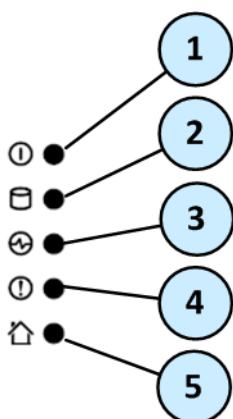


Item	Component	Description
1	Synchronization port	Synchronize with cluster members.

Item	Component	Description
2	RJ45 console port	For a serial connection to the appliance. See "Connecting to the 6000/7000 Appliances CLI" on page 36.
3	Port activity LED	- Off - No activity - Slow Blink (Green) - Activity
4	Link speed LED	- Off - No Link or 10M link - On (Green) - 100M link - On (Amber) - 1000M link
5	Management port	For an Ethernet connection to a remote management computer.
6	USB ports	2 USB 3.0 ports.
7	LOM port	LOM (Lights Out Management) port to connect to the LOM card.
8	Console port	6500 and 6800 appliances - a MiniUSB port for a serial connection to the appliance (shown in image). 6200, 6400, 6600, 6700, 6900, and 7000 appliances - a USB Type-C port for a serial connection to the appliance. See "Connecting to the 6000/7000 Appliances CLI" on page 36.

Front Panel System LEDs

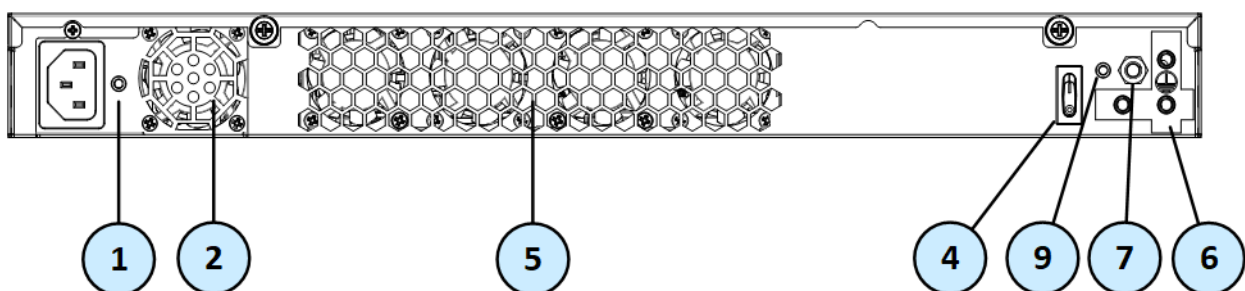
System power, storage device activity, power supply status, alert, and location.



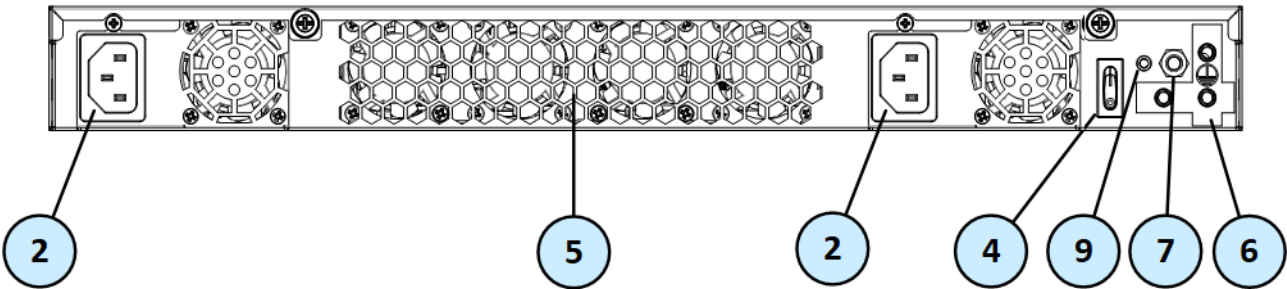
Item	Icon	Component	Description
1	①	System power	- Off - System power off - On (Green) - System power on
2	📁	Storage device activity	- Off - No storage device activity - On (Amber) - Read/write activity
3	⚡	Power supply status	- Off - No power/no status - Amber - Power supply fault detected - Green - All power supplies are functioning correctly Note - 6200 Base appliances - do not have this system LED.
4	⚠	Alert	- Off - No faults detected - Blinking red - System fault detected
5	🏠	Location beacon	- Off - Location beacon is turned off - Solid blue - Location beacon is turned on through the Gaia Portal or Gaia Clish or through the Locator button on the front panel Note - You can turn off the Location beacon LED from the Locator button, Gaia Portal, or Gaia Clish.

Rear Panel

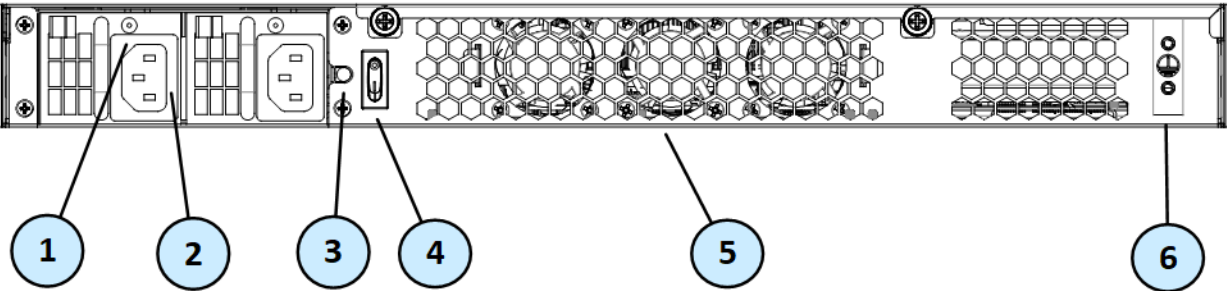
6200 Base



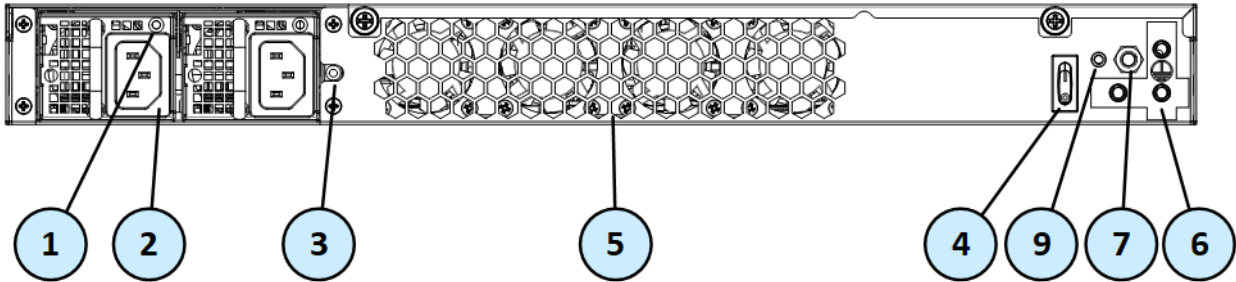
6200 Plus/Turbo and 6400 Base/Plus



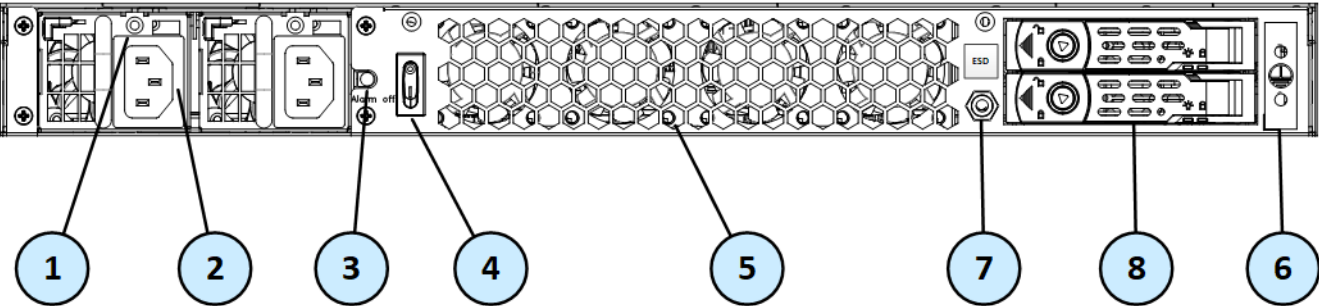
6500



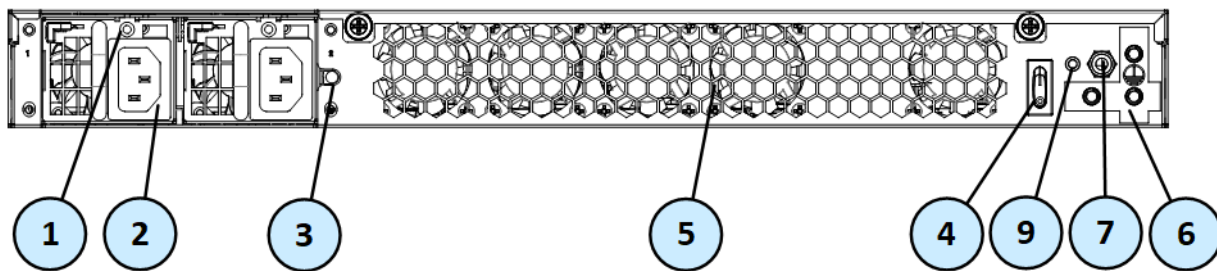
6600 Base/Plus, 6700 Base/Plus, and 6900 Base/Plus



6800



7000 Base/Plus

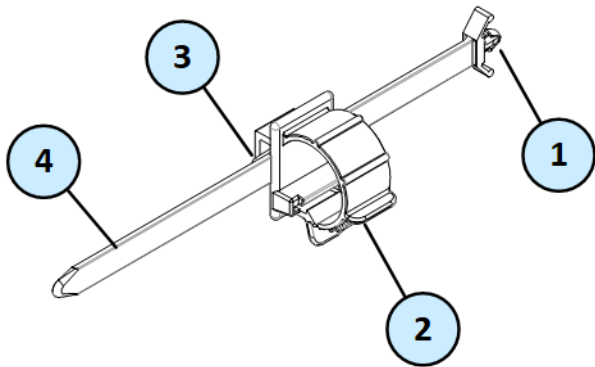


Item	Component	Description
1	LED indicator for each power supply unit	Off - Power supply is not connected to an electric outlet - On (Amber) - Power off - On (Green) - Power on - On (Red) - Failure
2	Power supply unit/s	Connect to an electric outlet. In 6200 Base, 6600, 6700 Base, 6900 Base, and 7000 Base appliances, one module is included. In 6500 and 6800 appliances, an optional dual redundant hot-swappable power supply is available. In 6200 Plus/Turbo, 6400, 6700 Plus, 6900 Plus, and 7000 Plus appliances two modules are supplied. You can use the cable restraints/clips to avoid accidental removal of the power supply cable. In 6200 and 6400 appliances - unscrew the screw directly above the power supply inlet for the cable restraint strip.
3	Alarm off button for power supply units	If a power supply cable is not connected to the outlet, an alarm sounds continuously. Press this button to turn off the alarm. In 6200 Plus/Turbo and 6400 appliances - see the "Front Panel" on page 38 for this functionality.
4	Main power switch	When the appliance is turned off, turns the appliance on. When the appliance is turned on, pressing and releasing the switch will start an orderly shutdown process. Alternatively, holding the switch for 4 seconds will force a machine shut down.

Item	Component	Description
5	Fixed cooling fans	Numbered from right to left. In the 6200, 6400, 6600, 6700, 6800, and 6900 appliances - 1, 2, 3, 4. In the 6500 appliances - 1, 2, 3. In the 7000 appliances - 1, 2, 3, 4, 5.
6	Grounding lug	When using a DC power supply unit (PSU), use the grounding lug that is located on the DC PSU.
7	ESD grounding plug	In 6200, 6400, 6600, 6700, 6800, 6900, and 7000 appliances - When servicing the appliance, connect an ESD strap to this plug.
8	Storage devices	In 6800 appliances - When monitoring the storage devices with the <code>raid_diagnostic</code> command, <code>DiskID 0</code> is the top storage device, and <code>DiskID 1</code> is the bottom storage device (in 6800 appliances only). By default, 6800 is shipped with only one storage device.
9	Location LED	In 6200, 6400, 6600, 6700, 6900, and 7000 appliances only • Off - Location beacon is turned off • Solid blue - Location beacon is turned on through the Gaia Portal or Gaia Clish or through the Locator button on the front panel Note - You can turn off the Location beacon LED from the Locator button, Gaia Portal, or Gaia Clish.

Using the Power Cable Restraint Strip on 6200 and 6400 Appliances

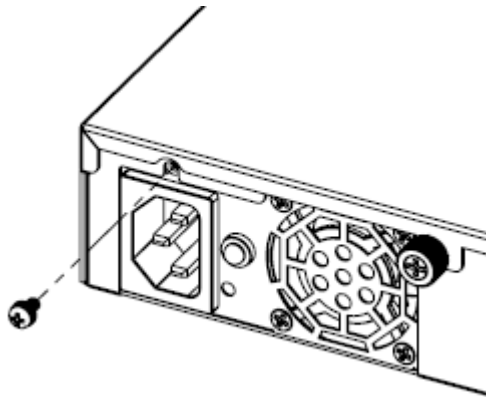
On 6200 and 6400 appliances, you can use the power cable restraint to prevent accidental removal of the power cable.



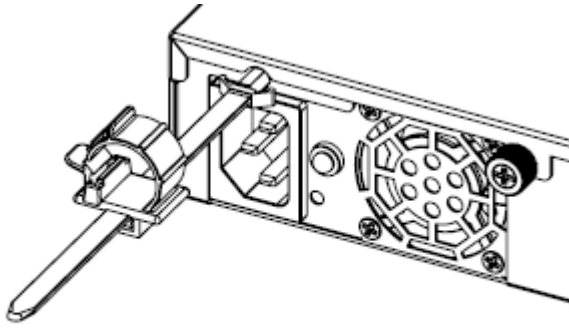
Item	Description
1	Restraint anchor
2	Cable loop
3	Restraint strip tab
4	Restraint strip

To install the power cable restraint strip:

1. If a power cable is connected to the power supply inlet, disconnect it.
2. Unscrew the screw directly above the power supply inlet.



3. Make sure the cable loop on the restraint strip faces the power supply inlet.
4. Insert the restraint strip anchor into the slot and screw it in until it locks.



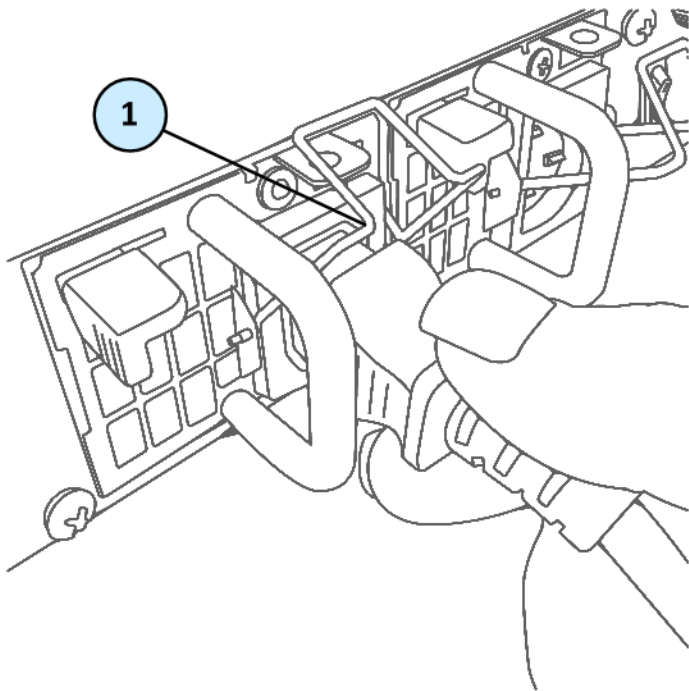
5. Connect the power cable to the power supply inlet.
6. Move the cable loop on the restraint strip.
7. Move the cable loop until you can put it around the power cable.
8. Insert the open side of the cable loop into the loop slot until it is tight against the power cable.
9. Make sure the cable loop is secured and the power cable cannot be removed.

Using the Restraint Clip on 6500, 6600, 6700, 6800, 6900, and 7000 Appliances

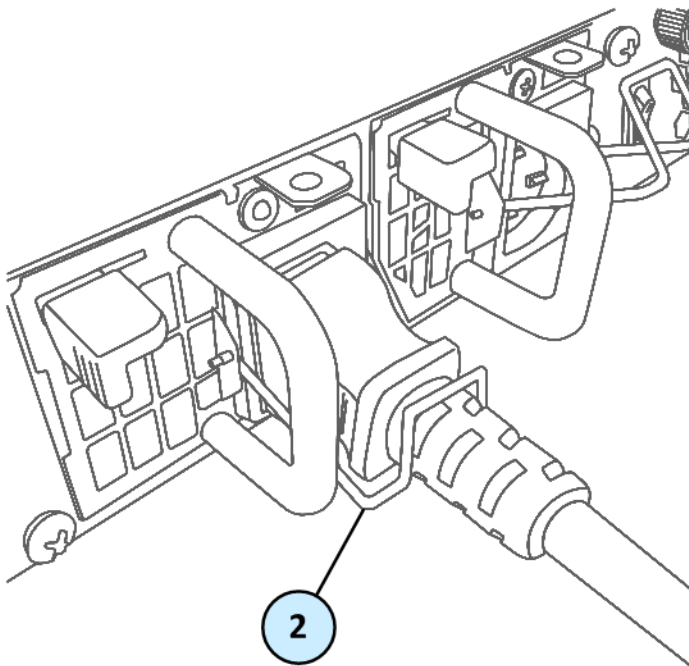
The 6500, 6600, 6700, 6800, 6900, and 7000 appliances have a power cable restraint clip attached to the power supply unit (PSU). Use the restraint clip to prevent accidental removal of the power cable.

To secure the restraint clip on the power supply cable:

1. Make sure the restraint clip is in the open position (upward).
2. Connect the power supply cable to the power supply inlet on the PSU.



3. Push down on the restraint clip to close it and secure the power supply cable.



Item	Description
1	Restraint clip in the open position (upward)
2	Restraint clip in the closed position

Lights Out Management

The Check Point Lights Out Management (LOM) card lets you use a dedicated management channel to remotely control Check Point appliances. Lights Out Management can also work when the appliance is turned off or not responding.

Lights Out Management is an optional feature on the 6200 Base, 6400 Base, 6500, 6600 Base, 6700 Base, 6900 Base, and 7000 Base appliances.

It is included by default with the 6200 Plus/Turbo, 6400 Plus, 6600 Plus, 6700 Plus, 6800, 6900 Plus, and 7000 Plus appliances.

For more about using Lights Out Management, see the *Lights Out Management Administration Guide*.

Dual Redundant BIOS

To ensure resilience in the event of a BIOS failure, 6000 and 7000 Appliances are equipped with dual redundant BIOS images.

If an appliance encounters a BIOS failure, it will boot up from a recovery, read-only BIOS image that enables full functionality of the appliance.

These notifications are shown in the event of a BIOS failure:

- The appliance's Alert LED on the front panel will blink red.
- The Gaia WebUI Hardware Health window shows that the BIOS sensor is Invalid and its status is Off.
- An SNMP trap message (if the biosFailure trap was configured in the WebUI or through clish).

Source:	10.48.0.92	Timestamp:	20 seconds	SNMP Version:
Trap OID:	.1.3.6.1.4.1.2620.1.3000.20.1			
Variable Bindings:				
Name:	.iso.org.dod.internet.mgmt.mib-2.system.sysUpTime.0			
Value:	[TimeTicks] 20 seconds (2001)			
Name:	snmpTrapOID			
Value:	[OID] .1.3.6.1.4.1.2620.1.3000.20.1			
Name:	.1.3.6.1.4.1.2620.1.3000.0.12.0			
Value:	[OctetString] the BIOS has failed, using recovery BIOS.			
Description:				

To recover from a BIOS failure, see [sk108517](#) or contact Check Point support. The appliance is fully functional until the BIOS recovery is completed.

Hardware Health

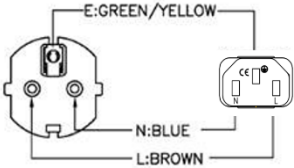
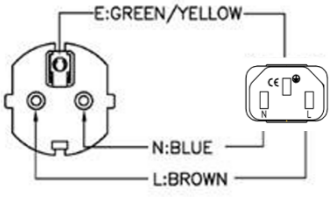
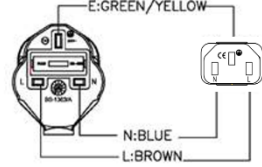
Refresh

Sensor	Value	Status
 VDIMM Voltage	1.50 Volt	 Ok
 VBAT3 Voltage	3.02 Volt	 Ok
 System Intake Temperature	37.00 Celsius	 Ok
 System Outlet Temperature	41.00 Celsius	 Ok
 CPU Temperature	47.50 Celsius	 Ok
 CPU Fan Speed	1917.50 RPM	 Ok
 BIOS	Valid	 Ok

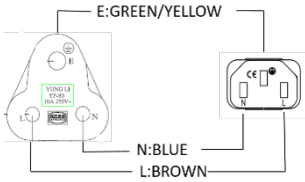
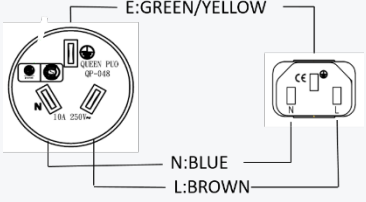
AC Power Cords

The supplied AC power cords are specific to the geographical region.

These are some of the available power cords.

Region	Plug	Connector	Cable	Diagram
EU	QP-004, 16A 250V~	QP-007, 10A 250V~	HO5VV-F 3G 0.75mm ²	
Australia	QP-003, 10A 250V~	QP-007, 10A 250V~	HO5VV-F 3G 0.75mm ²	
UK	QP-026, 10A 250V~	QP-007, 10A 250V~	HO5VV-F 3G 0.75mm ²	

Region	Plug	Connector	Cable	Diagram
US	QP-02, 10A 125V~	QP-007, 10A 125V~	SJT 18AWG 3C 105°C	
US	QP-02, 15A 125V~	QP-007, 15A 125V~	SJT 14AWG 3C 105°C	
US	QP-055, 15A 125V~	QP-007, 15A 125V~	SJT 14AWG 3C 105°C	
Japan	QP-005, 10A 250V~	QP-007, 10A 250V~	HO5VV-F 3G 0.75mm ²	
India	QP-013, 16A 250V~	QP-007, 10A 250V~	3INR 3G 0.75mm ²	
China	QP-012, 10A 250V~	QP-007, 10A 250V~	VCTF 3G 2mm ²	
Israel	QP-029R, 16A 250V~	QP-007, 10A 250V~	HO5VV-F 3G 0.75mm ²	

Region	Plug	Connector	Cable	Diagram
South Africa	YP-80, 16A 250V~	QP-007, 10A 250V~	HO5VV-F 3G 0.75mm ²	
Argentina	QP-048, 10A 250V~	QP-007, 10A 250V~	HO5VV-F 3G 0.75mm ²	

Replacing and Upgrading Components

The 6000 and 7000 appliances have parts that you can easily replace to minimize downtime. There are also components that you can install to upgrade the appliance. These are the parts and components that can be used with the appliance:

- Telescopic rails
- Line cards
- Transceivers
- AC and DC power supply units - For 6500, 6600, 6700, 6800, 6900, and 7000 appliances only
- System memory
- Lights Out Management
- Storage devices - For 6800, 6900, and 7000 appliances only

For more information about installing these parts and components, see the appliance [home page](#).

Unless directed to do so by Check Point technical support, you are prohibited by warranty and support agreements from replacing any parts.

Restoring Factory Defaults

If necessary, restore the appliance to its factory default settings.



Important - If you restore factory defaults, note that all information on the appliance is deleted.

Restoring from the Gaia Portal

Use the Gaia Portal to restore the appliance to the factory default settings.

To restore a Gaia appliance from the Gaia Portal:

1. In your web browser, connect to the management IP address:
`https://<appliance_ip_address>`
2. Log in to the Gaia Portal of the appliance with the administrator username and password.
3. In the left navigation tree, click Maintenance > Factory Defaults.

The Factory Defaults window opens. The image installed on the appliance is shown.

4. Click Apply.

The appliance reboots and installs the selected version from scratch.

Restoring from the Boot Menu

To restore the appliance from the Boot Menu:

1. Connect the supplied serial cable's RJ45 or USB type-C connector to the console port on the front of the appliance.
2. From the computer, open a terminal emulation program such as PuTTY or Microsoft HyperTerminal.
3. Configure the terminal emulation program:
 - In PuTTY select the Serial connection type.
 - In the HyperTerminal Connect To window, select a port from the Connect using list.
4. Define the serial port settings:
9600 BPS, 8 bits, no parity, 1 stop bit
5. From the Flow control list, select None.
6. Connect to the appliance.
7. Reboot or turn on the appliance.

The appliance initializes and status messages are shown in the terminal emulation program.

8. When the message "Press any key to see the boot menu" is shown, you have approximately four seconds to hit any key to activate the Boot menu.
9. From the Boot menu, select the relevant Reset to factory defaults image.
10. Press Enter.

The appliance initializes and status messages are shown in the terminal emulation program.

Restoring from Gaia Clish

To restore the appliance from Gaia Clish:

1. Connect to the command line on the appliance.
2. Log in to Gaia Clish.
3. Run:

```
set fcd revert <image_name>
```

Example:

```
MyAppliance> set fcd revert Gaia_R80.30
Warning! This command will erase all the current configuration on this appliance and will
revert it to the selected image.
Are you sure you want to continue such action? (Yes/No) [No]yes
Reverting to factory defaults Gaia_R80.30
MyAppliance>
Broadcast message from admin (Tue May 14 12:19:16 2019):
The system is going down for reboot NOW!
INIT: Sending processes the TERM signal
```

Registration and Support

Registration

The appliance requires a product-specific Check Point license.

Connect to the Portal of the appliance (from Advanced mode, select Maintenance > Licenses) to find the MAC address that is required to obtain a license.

Alternatively, you can read the MAC address off the service tag on the appliance. Refer to "Front Panel" on page 38.

Support

For additional technical information about Check Point products, consult the [Check Point Support Center](#).

Where To From Here?

You have the basics to get started. The next step is to get more advanced knowledge of your Check Point software.