

CHECK POINT SECURITY APPLIANCE ACCESSORIES GUIDE

EXPAND NETWORK CAPACITY, INCREASE PERFORMANCE & RELIABILITY

Check Point security gateway appliances are built with flexibility and expansion capability to meet the diverse requirements in today's enterprise networks. The modular design and the wide variety of network options available in the 5000, 15000 and 23000 series not only provide a rich set of connectivity options for these gateways, they also make the gateways highly customizable to be suited for deployment in any network environment.

Keeping your networks available and keeping your business running is our ultimate goal. Check Point Security Appliances offer features such as redundant and hot-swappable storage and power supply. Combined together, these features ensure optimized system availability and a greater degree of business continuity. The slide rails, which are standard on these gateway appliances, enable fast and easy rack installation and improve the system's service ability.

	3100	3200	5100	5200	5400	5600	5800	5900	15400	15600	23500	23800
Expansion slots			1	1	1	1	2	2	3	3	5	5
Base Network Configuration												
Base 1GbE copper	6	6	6	6	10	10	10	10	10*	10*	10*	10*
Base 10GbE SFP+									2*	2*	2*	2*
Supported Network Interface Cards												
8x1GbE copper			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4x1GbE copper (FO)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4x1GbE fiber			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4x10GbE fiber						✓	✓	✓	✓	✓	✓	✓
2x10GbE fiber (FO)						✓	✓	✓	✓	✓	✓	✓
2x40GbE fiber							✓	✓	✓	✓	✓	✓
Hardware Options												
HDD or SSD								1+1	1+1	2	2	2
AC Power supply						1+1	1+1	1+1	2	2	2	2
DC Power			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Memory Upgrade			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LOM Upgrade			✓	✓	✓	✓	Included	Included	Included	Included	Included	Included
Slide Rails			✓	✓	✓	✓	Included	Included	Included	Included	Included	Included

* using one available expansion slot

FEATURES

- Flexible network expansion options
 - 10/100/1000 Base-T
 - 1000 Base-F SFP
 - 10G Base-F SFP+
 - 40G QSFP
- Redundant drive with RAID1
- Redundant hot-swappable power supplies
- Lights-Out Management (LOM)
- Slide mounting rails

BENEFITS

- Deploy in any network environment with highly customizable network interface
- Expand network capacity and security functions as business needs grow
- Enhanced business continuity with redundant and hot-swappable drives and power supplies
- Increase serviceability and reduce service time with LOM and slide mounting rails

NETWORKING

Check Point Security Appliances can be ordered with 1 GbE copper, 1 GbE fiber, 10 GbE fiber or 40 GbE network interface cards. The modules and port density varies depending upon the security appliance and the number of expansion slots available. Network interface cards are interchangeable between the security appliances.

NETWORK PORT CAPACITY (3000, 5000, 15000 and 23000)

Default/Max Ports	3100 3200	5100 5200	5400	5600	5800 5900	15400	15600	23500	23800
10/100/1000 Base-T	6/6	6/14	10/18	10/18	10/26	10*/26	10*/26	10*/42	10*/42
1000Base-F SFP	0/0	0/4	0/4	0/4	0/8	0/12	0/12	0/20	0/20
10GBase-F SFP+	0/0	0/0	0/0	0/4	0/8	2*/12	2*/12	2*/20	2*/20
40GBase QSFP					0/4	0/4	0/4	0/4	0/4
Expansion Slots	0	1	1	1	2	3	3	5	5

* using one of the available expansion slots

NETWORK I/O MODULES (5000, 15000 and 23000)

SKU	CPAC-8-1C-B	CPAC-4-1F-B	CPAC-4-10F-B	CPAC-2-40F-B
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Supported Models	5000, 15000, 23000	5000, 15000, 23000	5600, 5800, 5900, 15000, 23000	5800, 5900, 15000, 23000
Number of Ports	8	4	4	2
Port Types	RJ-45 (Copper) 10/100/1000Base-T	SFP	SFP+	QSFP
Speed	1 Gbps	1 Gbps	10 Gbps	40 Gbps
Transceivers		CPAC-TR-1T-B CPAC-TR-1SX-B CPAC-TR-1LX-B	CPAC-TR-10SR-B CPAC-TR-10LR-B	CPAC-TR-40SR- QSFP-300m CPAC-TR-40LR- QSFP-10K

FAIL-OPEN NETWORK I/O MODULES (5000, 15000 and 23000, transceivers included)

SKU	CPAC-4-1C-BP-B	CPAC-2-10FSR-BP-B
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Supported Models	5000, 15000, 23000	5600, 5800, 5900, 15000, 23000
Number of Ports	4	2
Port Types	RJ-45 (copper) 10/100/1000Base-T	SFP+ 10GBase-SR
Speed	1 Gbps	10 Gbps
Transceivers	NA	CPAC-TR-10SR

NETWORK TRANSCEIVER SPECIFICATION (5000, 15000 and 23000)

SKU	CPAC-TR-1T-B	CPAC-TR-1SX-B	CPAC-TR-1LX-B
Form Factor	SFP	SFP	SFP
Protocol	1000Base-T Compliant	1.25 Gb/s 1000Base- SX Ethernet	1.25 Gb/s 1000Base- LX Ethernet
Wavelength (nm)		850	1310
Connector	RJ-45	LC	LC
Distance (Max)	100 m	500m at 50/125µm MMF	5km
Supported Cable Type	Cat 5	Orange: multi-mode 50/125 µm MMF (OM3)	Yellow: Single mode 5km at 9µm
Input Level (Receive Power) dBm	N/A	-18dBm	-19dBm
Output Level (Transmit Power) dBm	N/A	-2.5 to -9dBm	-3 to -9.5dBm

SKU	CPAC-TR-10SR-B	CPAC-TR-10LR-B	CPAC-TR-40SR-QSFP-300m	CPAC-TR-40LR-QSFP-10K
Form Factor	SFP+	SFP+	QSFP	QSFP
Protocol	10GBASE-SR 10G Ethernet	10GBASE-LR 10G Ethernet	40GBase-SR 40G Ethernet	40GBase-LR 40G Ethernet
Wavelength (nm)	850	1310	850	1310
Connector	LC	LC	MPO	LC
Distance (Max)	300m	10km	300m	10km
Supported Cable Type	Orange: multi-mode 50/125 µm fiber (OM3)	Yellow: single mode 10km at 9 µm	Aqua: multi-mode 50/125 µm fiber (OM3)	Yellow: single mode 10km at 9 µm
Input Level (Receive Power) dBm	-17dBm (1GbE mode)- 11.1dBm (10GbE mode)	-19dBm (1GbE mode) - 12.6dBm (10GbE mode)	11.1dBm (40GbE mode)	11.5dBm (40GbE mode)
Output Level (Transmit Power) dBm	-1 to -9.5dBm (1GbE mode) -1 to -5dBm (10GbE mode)	-3 to -11dBm (1GbE mode) +0.5 to -8.2dBm (10GbE mode)	0.5 to -7.5dBm (40GbE mode)	2.3 to -7dBm (40GbE mode)

STORAGE

Redundant drives are configured in a RAID1 mirror increasing system reliability. RAID status monitoring is available via SNMP.

REDUNDANT STORAGE OPTIONS (5000, 15000 and 23000)

	3000	5100 - 5800	5900	15400	15600	23500	23800
HDD Capacity	1x 320GB	1x 500GB	1x 500GB	1x 1TB	2x 1TB	2x 1TB	2x 1TB
SSD Capacity¹	1x 240GB	1x 240GB	1x 480GB	1x 480GB	2x 480GB	2x 480GB	2x 480GB
Redundant Drive	NA	NA	Optional	Optional	Included	Included	Included
RAID Setup			RAID1	RAID1	RAID1	RAID1	RAID1

¹ Local logging and standalone configuration (management and gateway) not supported for the SSD option, see sk113053

STORAGE DISK DRIVE SPECIFICATION (5900, 15000 and 23000)

	5900	15000, 23000
SKU	CPAC-HDD-500G-5900	CPAC-HDD-1TB-B
Capacity	500 GB	1 TB
Interface	SATA, 6 Gbps	SATA, 6 Gbps
RPM	7200	7200
Cache	64MB	128MB

POWER SUPPLIES

Dual power supplies increase the overall reliability of the security appliance. In the dual power supply configuration an audible alarm occurs when one power supply fails. Power Supply status is also monitored via SNMP or in the WebUI status.

POWER SUPPLY OPTIONS (5000, 15000 and 23000)

	3000	5100, 5200, 5400 ¹	5600, 5800	5900	15000, 23000
Redundant Power Supply	NA	NA	Optional	Optional	Included
DC Power Supply	NA	Optional	Optional	Optional	Optional

¹ 5100, 5200 and 5400 power supplies are not Field Replaceable Units (FRU)

POWER SUPPLY SPECIFICATION (5000, 15000 and 23000)

	5600, 5800	5900	15000	23000
AC SKU	CPAC-PSU-5600/5800	CPAC-PSU-AC-5900	CPAC-PSU-AC-15000	CPAC-PSU-AC-23000
DC SKU	CPAC-PSU-DC-5600/5800	CPAC-PSU-DC-5900	CPAC-PSU-DC-Dual-15000/23000	
AC Power Input	90 to 264V (47-63Hz)	90 to 264V (47-63Hz)	90 to 264V (47-63Hz)	90 to 264V (47-63Hz)
AC Input Current	5600: 0.75A 5800: 0.84A	5900: 0.84A	15400: 7.1A 15600: 7.1A	23500: 9.4A 23800: 9.4A
DC Input Current			-40.5V/24A -48V/19.2A, -60V/16.0A	-40.5V/24A -48V/19.2A, -60V/16.0A
Output Power	275W	275W	AC(600W), DC(800W)	800W

MEMORY

Additional system memory increases connection capacity and improves the overall ability of the security appliance to handle additional Software Blades.

MEMORY OPTIONS (5000, 15000 and 23000)

	3100, 3200	5100, 5200	5400, 5600, 5800, 5900	15400	15600	23500	23800
Default (GB)	8	8	8	8	16	16	32
HPP Memory	NA	8	16	24	32	64	64
Options	NA	16	16, 32	24, 64	32, 64	64, 128	64, 128

MEMORY SPECIFICATION (5000, 15000 and 23000)

Model	SKU	Start	Target	Modules
5100, 5200, 5400, 5600, 5800	CPAC-RAM8GB-5000	8	16	1x 8GB DDR3
	5900	8	16	1x 8GB ECC DDR4
5400, 5600, 5800	CPAC-RAM16GB-5000	16	32	2x 8GB DDR3
	CPAC-RAM24GB-5000	8	32	3x 8GB DDR3
5900	CPAC-RAM16GB-5900	16	32	2x 8GB ECC DDR4
	CPAC-RAM24GB-5900	8	32	3x 8GB ECC DDR4
15400	CPAC-RAM16GB-15400	8	24	2x 8GB ECC DDR4
	CPAC-RAM40GB-15400	24	64	5x 8GB ECC DDR4
	CPAC-RAM56GB-15400	8	64	7x 8GB ECC DDR4
15600	CPAC-RAM16GB-15600	16	32	2x 8GB ECC DDR4
	CPAC-RAM32GB-15600	32	64	4x 8GB ECC DDR4
	CPAC-RAM48GB-15600	16	64	6x 8GB ECC DDR4
23500	CPAC-RAM48GB-23500	16	64	6x 8GB ECC DDR4
	CPAC-RAM64GB-23500	64	128	8x 8GB ECC DDR4
	CPAC-RAM112GB-23500	16	128	14x 8GB ECC DDR4
23800	CPAC-RAM32GB-23800	32	64	4x 8GB ECC DDR4
	CPAC-RAM64GB-23800	64	128	8x 8GB ECC DDR4
	CPAC-RAM96GB-23800	32	128	12x 8GB ECC DDR4

LIGHTS-OUT MANAGEMENT

Lights-Out-Management (LOM) provides out-of-band remote management to remotely diagnose, start, restart and manage the security appliance from a remote location.

LIGHTS-OUT MANAGEMENT OPTIONS (5000, 15000 and 23000)

	3100, 3200	5100, 5200, 5400, 5600	5800, 5900	15400	15600	23500	23800
LOM	NA	Optional	Included	Included	Included	Included	Included

LIGHTS-OUT MANAGEMENT SPECIFICATION

SKU	Features
CPAC-LOM-B	LOM/IPMI module with front 1 GbE RJ-45

SECURITY APPLIANCE RACK MOUNT OPTIONS

Slide rails provide simple installation (5-10 minutes) and easy maintenance access for 5000, 15000 and 23000 Security Appliances in a standard 19-inch (48.26 cm) rack (see specification EIA-310-D). For the desktop form factor of the 3100 and 3200 Security Appliances, we have shelf rack mount kits available.

SLIDING MOUNTING RAIL OPTIONS

	5100	5200	5400	5600	5800	5900	15000	23000
Sliding Rails	Optional	Optional	Optional	Optional	Included	Included	Included	Included

RACK KIT SPECIFICATION (3200, 5000, 15000 and 23000)

	SKU	Depth
15000, 23000	CPAC-RAIL-L	22 in (55.9 cm) to 32 in (81.3 cm)
	CPAC-RAIL-EXT-L	24 in (61 cm) to 36 in (91.4 cm)
5000	CPAC-RAIL-5000	22 in (55.9 cm) to 32 in (81.3 cm)
	CPAC-RAIL-EXT-5000	24 in (61 cm) to 36 in (91.4 cm)
3100, 3200	CPAC-RM-DUAL-3000	Single/Dual 3000 1U Shelf Rack Mount

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