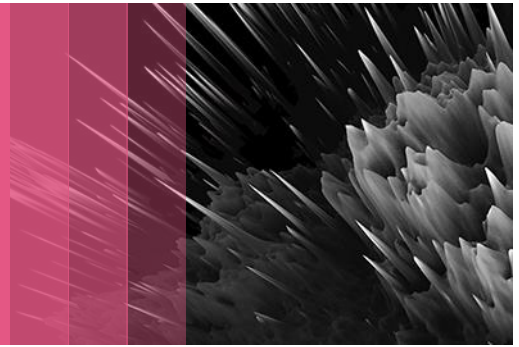


CHECK POINT APPLIANCE ACCESSORIES GUIDE



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 15000 and 23000 series of appliances 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 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.

		15400	15600	23500	23800
Expansion	Base 1GbE copper	10*	10*	10*	10*
	Base 10GbE SFP+	2*	2*	2*	2*
	Expansion slots	3	3	5	5
	8x1GbE copper	✓	✓	✓	✓
	4x1GbE copper (FO)	✓	✓	✓	✓
	4x1GbE fiber	✓	✓	✓	✓
	4x10GbE fiber	✓	✓	✓	✓
	2x10GbE fiber (FO)	✓	✓	✓	✓
	2x40GbE fiber	✓	✓	✓	✓
Hard Drive	1+1	2	2	2	
Power supply	2	2	2	2	
Memory Upgrade	✓	✓	✓	✓	
LOM Upgrade	Included	Included	Included	Included	
Slide Rails	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 HDD with RAID1 support
- Redundant hot-swappable power supplies
- Lights-Out Management (LOM)
- Slide mounting rails

BENEFITS

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

NETWORKING





Check Point 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 appliance and the number of expansion slots available. Network interface cards are interchangeable between the appliances and a 40 GbE interface option is available in the 15000 and 23000 models.

NETWORK PORT CAPACITY (15000 and 23000 APPLIANCES)



Default/Max Ports	15400	15600	23500	23800
10/100/1000 Base-T	10*/26	10*/26	10*/42	10*/42
1000Base-F SFP	0/12	0/12	0/20	0/20
10GBase-F SFP+	2*/12	2*/12	2*/20	2*/20
40GBase QSFP	0/4	0/4	0/4	0/4
Expansion Slots	3	3	5	5

* using one of the available expansion slots

NETWORK I/O MODULES (15000 and 23000 APPLIANCES)

SKU	CPAC-8-1C-B	CPAC-4-1F-B	CPAC-4-10F-B	CPAC-2-40F-B
				
Supported Appliances		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 (15000 and 23000 APPLIANCES, transceivers included)

SKU	CPAC-4-1C-BP-B	CPAC-2-10FSR-BP-B
		
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 (15000 and 23000 APPLIANCES)

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

REDUNDANT STORAGE OPTIONS (15000 and 23000 APPLIANCES)

	15400	15600	23500	23800
Default	1 x 1 TB	2 x 1 TB	2 x 1 TB	2x1 TB
Redundant HDD	1 x 1 TB (Optional)	Included	Included	Included
RAID Setup	RAID1	RAID1	RAID1	RAID1

STORAGE DISK DRIVE SPECIFICATION (15000 and 23000 APPLIANCES)

	DETAILS
SKU	CPAC-HDD-1TB-B
Capacity	1 TB
Interface	SATA2, 3 Gbps
RPM	7200
Cache	128MB

POWER SUPPLIES

Dual power supplies increase the overall reliability of the 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 (15000 and 23000 APPLIANCES)

	15000	23000
Redundant Power Supply	Included	Included

POWER SUPPLY SPECIFICATION (15000 and 23000 APPLIANCES)

	15000	23000
SKU	CPAC-PSU-AC-15000	CPAC-PSU-AC-23000
Input Voltage	90 – 264VAC	90 – 264VAC
Input Current	15400: 2.34A 15600: 3.11A	23500: 3.41A 23800: 3.51A
Frequency	47-63Hz	47-63Hz
Output Power	600W	800W

MEMORY

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

MEMORY OPTIONS

	15400	15600	23500	23800
Default (GB)	8	16	16	32
Options	24	32	64	64
HPP Memory	24	32	64	64

MEMORY SPECIFICATION (15000 and 23000 APPLIANCES)

	15400	15600	23500	23800
SKU	CPAC-RAM16GB-15400	CPAC-RAM16GB-15600	CPAC-RAM48GB-23500	CPAC-RAM32GB-23800
Capacity	24GB	32GB	64GB	64GB
Type	ECC DDR4	ECC DDR4	ECC DDR4	ECC DDR4
Modules	6 x 4GB	4 x 8GB	8 x 8GB	8 x 8GB

LIGHTS-OUT MANAGEMENT

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

LIGHTS-OUT MANAGEMENT OPTIONS (15000 and 23000 APPLIANCES)

	15400	15600	23500	23800
LOM	Included	Included	Included	Included

LIGHTS-OUT MANAGEMENT SPECIFICATION

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

APPLIANCE RACK MOUNT OPTIONS

Slide rails provide simple installation (5-10 minutes) and easy maintenance access for 15000 and 23000 Appliances in a standard 19-inch (48.26 cm) rack (see specification EIA-310-D).

SLIDING MOUNTING RAIL OPTIONS

	15000	23000
Sliding Rails	Included	Included

APPLIANCE RACK KIT SPECIFICATION (15000 and 23000 APPLIANCES)

	SKU	Depth
15000, 23000	CPAC-RAILS-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)

CONTACT US

Worldwide Headquarters | 5 Ha'Solelim Street, Tel Aviv 67897, Israel | Tel: 972-3-753-4555 | Fax: 972-3-624-1100 | Email: info@checkpoint.com
U.S. Headquarters | 959 Skyway Road, Suite 300, San Carlos, CA 94070 | Tel: 800-429-4391; 650-628-2000 | Fax: 650-654-4233 | www.checkpoint.com