

CHECK POINT 2026 SECURITY APPLIANCE ACCESSORIES GUIDE

Expand Network Capacity, Increase Performance & Reliability

Check Point firewalls 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 not only provide a rich set of connectivity options for these security gateways, they also make them highly customizable to fit into 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, enable fast and easy rack installation and improve the system's service ability.



29000 Datacenter

7 network I/O slots, Dual hot-swap up to 2x 960GB NVMe SSDs, up to 256GB memory options, Dual hot-swap AC PSUs, Lights-out-Management 1,10, 25, 40, 100G ports



19000 Datacenter

4 network I/O slots, Dual hot-swap up to 2x 960GB NVMe SSDs, up to 128GB memory options, Dual hot-swap AC PSUs,



9700/9800 Perimeter

2 network I/O slots, up to 2x 960 SATA SSD storage, up to 128GB memory options, Dual hot-swap AC PSUs, Lights-out-Management, 1,10, 25, 40, 100G ports



9300/9400 Perimeter

1 network I/O slot, 1x 480GB SATA SSD storage, up to 64GB memory options, Dual hot-swap AC PSUs, Lights-out-Management, 1,10, 25, 40G ports



9100/9200 Perimeter

1 network I/O slot, 1x 480GB SATA SSD storage, up to 64GB memory options, Dual internal AC PSUs, (not hot swapable) Lights-out-Management, 1,10, 25G ports



3980/3970 Branch

1x 480GB SATA NVMe storage, 32GB memory, Dual AC PSUs, 1, 2.5, 10G ports



3950 Branch

1x 480GB SATA SSD storage, 32GB memory, Dual AC PSUs, 1, 2.5, 10G ports



3920 Branch

1x 480GB SATA SSD storage, 16GB memory, Dual AC PSUs, 1, 10G ports



2590 Branch

Dual AC PSUs, 1, 2.5, & 10G SFP ports



2560/2570 Spark

Wi-Fi 7 (optional), 5G (optional), Dual AC PSUs 1, 10G / SFP ports



2530/2550 Spark

Wi-Fi 7 (optional), 1G / SFP ports

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Check Point Firewalls - Datacenter

		1 GbE Copper	1/10 GbE Copper	1/10 GbE Fiber	10/25 GbE	40/100 GbE	Memory	Redundant Storage	Redundant Power	LOM	NICs In-Use Present /
29200	Base	0	2	8	0	0	128GB	960GB SSD 1/2	✓	✗	1 / 7
	Plus	0	2	16	4	2	196GB	960GB SSD 2/2	✓	✓	3 / 7
	Maximum	0	2	56	28	14	256GB	960GB SSD 2/2	✓	✓	7/7
29100	Base	0	2	8	0	0	128GB	960GB SSD 1/2	✓	✗	1 / 7
	Plus	0	2	16	4	0	196GB	960GB SSD 2/2	✓	✓	3 / 7
	Maximum	0	2	56	28	14	256GB	960GB SSD 2/2	✓	✓	7 / 7
19200	Base	0	2	8	0	0	96GB	960GB SSD 1/2	✓	✗	1 / 4
	Plus	0	2	8	4	0	128GB	960GB SSD 2/2	✓	✓	2 / 4
	Maximum	0	2	32	16	8	128GB	960GB SSD 2/2	✓	✓	4 / 4
19100	Base	0	2	8	0	0	64GB	960GB SSD 1/2	✓	✗	1/ 4
	Plus	0	2	8	4	0	96GB	960GB SSD 2/2	✓	✓	2 / 4
	Maximum	0	2	32	16	8	128GB	960GB SSD 2/2	✓	✓	4 / 4

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Check Point Firewalls Perimeter & Spark

		1 GbE Copper	1/10 GbE Copper	1/10 GbE Fiber	10/25 GbE	40/100 GbE	Memory	Redundant Storage	Redundant Power	LOM	NICs In-Use Present /
9800	Base	6	N/A	4	0	0	32GB	960GB SSD 1/2	✗	✗	0 / 2
	Plus	6	N/A	12	0	0	64GB	960GB SSD 2/2	✓	✓	1 / 2
	Maximum	22	N/A	20	8	4	128GB	960GB SSD 2/2	✓	✓	2 / 2
9700	Base	6	N/A	4	0	0	32GB	960GB SSD 1/2	✗	✗	0 / 2
	Plus	6	N/A	12	0	0	64GB	960GB SSD 2/2	✓	✓	2 / 2
	Maximum	22	N/A	20	8	4	128GB	960GB SSD 2/2	✓	✓	2 / 2
9400	Base	10	N/A	4	0	0	16GB	960GB SSD 1/1	✗	✗	0 / 1
	Plus	10	N/A	12	0	0	32GB	960GB SSD 1/1	✓	✓	1 / 1
	Maximum	20	N/A	12	4	2	64GB	960GB SSD 1/1	✓	✓	1 / 1
9300	Base	10	N/A	0	0	0	16GB	480GB SSD 1/1	✗	✗	0 / 1
	Plus	10	N/A	8	0	0	32GB	480GB SSD 1/1	✓	✓	1 / 1
	Maximum	18	N/A	8	4	0	64GB	480GB SSD 1/1	✓	✓	1 / 1
9200	Base	10	N/A	0	0	0	16GB	480GB SSD 1/1	✓	✗	0 / 1
	Plus	10	N/A	8	0	0	32GB	480GB SSD 1/1	✓	✓	1 / 1
	Maximum	18	N/A	8	4	0	64GB	480GB SSD 1/1	✓	✓	1 / 1
9100	Base	10	N/A	0	0	0	16GB	480GB SSD 1/1	✓	✗	0 / 1
	Plus	10	N/A	8	0	0	32GB	480GB SSD 1/1	✓	✓	1 / 1
	Maximum	18	N/A	8	4	0	64GB	480GB SSD 1/1	✓	✓	1 / 1
3970 / 3980		16	2 (2.5GbE)	8	4 (10GbE)	0	32GB	480GB NVMe 1/1	✓	✗	0 / 1
3950		8	2 (2.5GbE)	1	2 (10GbE)	0	32GB	480GB NVMe 1/1	✓	✗	0 / 1
3920		8	N/A	1	2 (10GbE)	0	16GB	480GB NVMe 1/1	✓	✗	0 / 1
2590		16	2 (2.5GbE)	8	4	-	-	✗	✓	✗	32
2580		8	2 (2.5GbE)	2	-	-	-	✗	✓	✗	12
2560 / 2570		8	0	2	-	-	-	✗	✓	✗	10
2530 / 2550		8	0	1	-	-	-	✗	✗	✗	10
1575/95		10	0	0	-	-	-	✗	-	✗	10
1535/55		6	0	0	-	-	-	✗	-	✗	6

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Network Accessories

	9100, 9200, 9300, 9400	9700, 9800	19000	29000
Expansion Slots	1	2	4	7

Network Accessories

SKU	CPAC-8-1/10F-D	CPAC-4-10/25F-D	CPAC-4-10/25F-DA	CPAC-2-40/100F-D
				
Supported Models	9000,19000, 29000	9000,19000, 29000	9000,19000, 29000	9400, 9700, 9800, 19000, 29000
Number of Ports	8	4	4	2
Port Types	SFP+	SFP+/SFP28	SFP+/SFP28	QSFP28
Speed	1/10 Gbps	10/25 Gbps	10/25 Gbps	10/25/40/100 Gbps
Transceivers	CPAC-TR-1LX-D CPAC-TR-1SX-D CPAC-TR-1T-D CPAC-TR-10LR-D CPAC-TR-10SR-D CPAC-TR-10ER-D CPAC-TR-10T-D	CPAC-TR-10LR-D CPAC-TR-10SR-D CPAC-TR-10ER-D CPAC-TR-10T-D CPAC-TR-25LR-D CPAC-TR-25SR-DM	CPAC-TR-10LR-D CPAC-TR-10SR-D CPAC-TR-10ER-D CPAC-TR-10T-D CPAC-TR-25LR-D CPAC-TR-25SR-DM	CPAC-TR-10T-D-ADP CPAC-TR-10SR-D-ADP CPAC-TR-10LR-D-ADP CPAC-TR-10ER-D-ADP CPAC-TR-25LR-D-ADP CPAC-TR-25SR-DM-ADP CPAC-TR-40SR-QSFP-100m-D CPAC-TR-40SR-QSFP-300m-D CPAC-TR-40SR-QSFP-BiDi-D CPAC-TR-40LR-QSFP-10Km-D CPAC-TR-40SWDM4 CPAC-TR-40ER4 CPAC-TR-100LR-D CPAC-TR-100SR-D CPAC-TR-100SWDM4-D CPAC-TR-100CWDM4-D CPAC-TR-100SR-BiDi CPAC-TR-100ERL4
DACs	CPAC-DAC-10G-1M-D CPAC-DAC-10G-3M-D CPAC-DAC-10G-5M-D	CPAC-DAC-10G-1M-D CPAC-DAC-10G-3M-D CPAC-DAC-10G-5M-D CPAC-DAC-25G-1M-D CPAC-DAC-25G-3M-D CPAC-DAC-25G-5M-D	CPAC-DAC-10G-1M-D CPAC-DAC-10G-3M-D CPAC-DAC-10G-5M-D CPAC-DAC-25G-1M-D CPAC-DAC-25G-3M-D CPAC-DAC-25G-5M-D	CPAC-DAC-10G-1M-D w/adapter CPAC-DAC-10G-3M-D, w/adapter CPAC-DAC-10G-5M-D, w/adapter CPAC-DAC-25G-1M-D, w/adapter CPAC-DAC-25G-3M-D, w/adapter CPAC-DAC-25G-5M-D, w/adapter CPAC-DAC-40G-1M-D CPAC-DAC-40G-3M-D CPAC-DAC-40G-5M-D CPAC-DAC-100G-1M-DM CPAC-DAC-100G-3M-DM CPAC-DAC-100G-5M-DM

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Network Transceiver Specification (1G Transceivers)

SKU	CPAC-TR-1T-D	CPAC-TR-1SX-D	CPAC-TR-1LX-D
Supported Models	3970,3980,9000,19000, 29000	25XX, 3970,3980,9000,19000, 29000	25XX, 3970,3980,9000,19000, 29000
Form Factor	SFP+	SFP+	SFP+
Protocol	1000BASE-T	1000BASE-SX	1000BASE-LX
Wavelength (nm)	-	840 to 860	1260 to 1355
Connector	RJ-45	LC	LC
Distance (Max)	100m	300m (OM1) 550m (OM2/OM3/OM4)	10km
Supported Cable Type	CAT 5	Multi-Mode 62.5/125 µm Fiber (OM1) 50/125 µm Fiber (OM2/OM3/OM4)	Single Mode 9/125 µm Fiber
Input Level (Receive Power) dBm	N/A	0.0dBm to -23.0dBm	0.0dBm to -24.0dBm
Output Level (Transmit Power) dBm	N/A	-3.0dBm to -9.5dBm	-3dBm to -9.5dBm
Supported NIC	CPAC-8-1/10F-D	CPAC-8-1/10F-D	CPAC-8-1/10F-D

Network Transceiver Specification (10G Transceivers)

SKU	CPAC-TR-10T-D	CPAC-TR-10SR-D	CPAC-TR-10LR-D	CPAC-TR-10ER-D
Supported Models	3900,9000,19200, 29000	25XX,3900,9000,19200, 29000	25XX,3900,9000,19200, 29000	9000,19200, 29000
Form Factor	SFP+	SFP+	SFP+	SFP+
Protocol	10GBASE-T	10GBASE-SR	10GBASE-LR	10GBASE-ER
Wavelength (nm)	-	840 to 860	1260 to 1355	1530 to 1565
Connector	RJ-45	LC	LC	LC
Distance (Max)	30m	300m (OM1)	10km	40km
Supported Cable Type	CAT6a, CAT7	Multi-Mode 62.5/125 µm Fiber (OM1) 50/125 µm Fiber(OM2/OM3/OM4)	Single Mode 9/125 µm Fiber	Single Mode 9/125 µm Fiber
Input Level (Receive Power) dBm	N/A	+0.5dBm. to -11.1dBm	+0.5dBm to -14.4dBm	-1.0dBm to -17dBm
Output Level (Transmit Power) dBm	N/A	-1.0dBm to -5.0dBm	+0.5dBm to -5.2dBm	+4.0dBm to – 4.7dBm
Supported NIC	CPAC-8-1/10F-D CPAC-4-10/25F-D CPAC-4-10/25F-DA CPAC-2-40/100F-D(w/Adapter)	CPAC-8-1/10F-D CPAC-4-10/25F-D CPAC-4-10/25F-DA CPAC-2-40/100F-D(w/Adapter)	CPAC-8-1/10F-D CPAC-4-10/25F-D CPAC-4-10/25F-DA CPAC-2-40/100F-D(w/Adapter)	CPAC-8-1/10F-D CPAC-4-10/25F-D CPAC-4-10/25F-DA CPAC-2-40/100F-D(w/Adapter)

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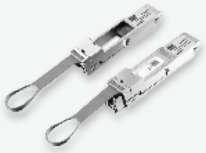
Network Transceiver Specification (25G Transceivers)

SKU	CPAC-TR-25SR-DM	CPAC-TR-25LR-D
Supported Models	9400, 9700, 9800,19200, 29000	9400, 9700, 9800,19200, 29000
Form Factor	SFP28	SFP28
Protocol	25GBASE-SR	25GBASE-LR
Wavelength (nm)	840 to 860	1260 to 1355
Connector	LC	LC
Distance (Max)	70m(OM3) 100m(OM4/OM5)	10km
Supported Cable Type	Multi-Mode 50/125 µm Fiber (/OM3/OM4/OM5)	Single Mode 9/125 µm Fiber
Input Level (Receive Power) dBm	+2.5dBm to -11 dBm	+2.0dBm to -12.0dBm
Output Level (Transmit Power) dBm	+2.5dBm to - 8.4dBm	+2.0dBm to -7.0dBm
Supported NIC	CPAC-4-10/25F-D CPAC-4-10/25F-DA CPAC-2-40/100F-D(w/Adapter)	CPAC-4-10/25F-D CPAC-4-10/25F-DA CPAC-2-40/100F-D(w/Adapter)

QSFP28 Adaptors With 10GbE and 25G Transceivers

Composed of a QSFP28 adapter with an SFP+ & SFP28 transceiver to connect a Check Point security appliance QSFP28 port to a network SFP+ or SFP28 port. The graphic shows an adapter without the transceiver (top) and the adapter with an SFP+ or SFP28 transceiver inserted in the adapter (bottom).

Supported on CPAC-2-40/100-D.



	ADAPTOR	TRANSCEIVER
CPAC-TR-10SR-D-ADP: QSFP28 adaptor with SFP+ transceiver module for short range links.	QSFP28	SFP+ 10GBase-SR
CPAC-TR-10LR-D-ADP: QSFP28 adaptor with SFP+ transceiver module for links up to 10km.	QSFP28	SFP+ 10GBase-LR
CPAC-TR-10ER-D-ADP: QSFP28 adaptor with SFP+ transceiver module for links up to 40km.	QSFP28	SFP+ 10GBase-ER
CPAC-TR-10T-D-ADP: QSFP28 adaptor with SFP+ transceiver module for links up to 30m over CAT6A or CAT7.	QSFP28	10GBASE-T RJ45 Copper
CPAC-TR-25SR-DM-ADP: SFP28 transceiver module for 25GbE fiber ports - short range (25GBASE-SR) MM Fiber, LC with QSFP28 Adapter	QSFP28	SFP28 25GBASE-SR
CPAC-TR-25LR-D-ADP: QSFP28 adaptor with SFP28 transceiver module for links up to 10km	QSFP28	SFP28 25GBase-LR
CPAC-TR-QSFP28-SFP28: 10G/25G fiber adaptor- QSFP28 to SFP28 Adapter	QSFP28	10G/25G Transceivers

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Network Transceiver Specification (40G Transceivers)

SKU	CPAC-TR-40SR-QSFP-100m-D	CPAC-TR-40SR-QSFP-300m-D	CPAC-TR-40SR-QSFP-BiDi-D	CPAC-TR-40SWDM4	CPAC-TR-40LR-QSFP-10Km-D	CPAC-TR-40ER
Supported Models	9700, 9800,19200, 29000	9700, 9800,19200, 29000	9700, 9800,19200, 29000	9700, 9800,19200, 29000	9700, 9800,19200, 29000	9700, 9800,19200, 29000
Form Factor	QSFP+	QSFP+	QSFP+	QSFP+	QSFP+	QSFP+
Protocol	40BASE-SR4	40GBASE-eSR4	40GBASE-CWDM4	40GBASE-SWDM4	40GBASE-LR4	40GBASE-ER4
Wavelength (nm)	840 to 860	840 to 860	832, 918	850, 880, 910, 940	1,271,129,113,111,330	1,271,129,113,111,330
Connector	MPO-12	MPO-12	LC	LC	LC	LC
Distance (Max)	100m (OM3) 150m (OM4)	300m (OM3) 400m (OM4)	100m (OM3) 150m (OM4)	300m (OM3) 400m (OM4)	10km	40km
Supported Cable Type	Multi-Mode 50/125 µm Fiber(OM3/ OM4)	Multi-Mode 50/125 µm Fiber(OM3/ OM4)	Multi-Mode 50/125 µm Fiber(OM3/ OM4)	Multi-Mode 50/125 µm Fiber(OM3/ OM4)	Single Mode 9/125 µm Fiber	Single Mode 9/125 µm Fiber
Input Level (Receive Power) dBm	+2.5dBm to -9.5dBm	+3.5dBm to -9.5dBm	+5dBm to -9.1dBm	+3.0dBm to -9.0dBm	+3.3dBm to -11.5dBm	-4.5dBm to -21.2dBm
Output Level (Transmit Power) dBm	+0.0dBm to -7.6dBm	+0.5dBm to -7.6dBm	+5dBm to -4dBm	+3.0dBm to -7.5dBm	+2.3dBm to -7dBm	+4.5dBm to -3.7dBm
Supported NIC	CPAC-2-40/100F-D	CPAC-2-40/100F-D	CPAC-2-40/100F-D	CPAC-2-40/100F-D	CPAC-2-40/100F-D	CPAC-2-40/100F-D

Network Transceiver Specification (100G Transceivers)

SKU	CPAC-TR-100SR-D	CPAC-TR-100LR-D	CPAC-TR-100CWDM4-D	CPAC-TR-100SWDM4-D	CPAC-TR-100SR-BiDi	CPAC-TR-100ERL4
Supported Models	9700, 9800,19200, 29000	9700, 9800,19200, 29000	9700, 9800,19200, 29000	9700, 9800,19200, 29000	9700, 9800,19200, 29000	9700, 9800,19200, 29000
Form Factor	QSFP28	QSFP28	QSFP28	QSFP28	QSFP28	QSFP28
Protocol	100GBASE-SR4	100GBASE-LR4	100GBASE-CWDM4	100GBASE-SWDM4	100GBASE-SR1.2	1000GBASE-ERL4
Wavelength (nm)	840 to 860	1295, 1300, 1304, 1309	1271, 1291, 1311, 1331	850, 880, 910, 940	855, 908	1295, 1300, 1304, 1309
Connector	MPO-12	LC	LC	LC	LC	LC
Distance (Max)	70m(OM3) 100m(OM4)	10km	2km	75m(OM3) 100m(OM4) 150m(OM5)	70m(OM3) 100m(OM4/5)	40km
Supported Cable Type	Multi-Mode 50/125 µm Fiber (OM3/ OM4)	Single Mode 9/125 µm Fiber	Single Mode 9/125 µm Fiber	Multi-Mode 50/125 µm Fiber (OM3/ OM4/OM5)	Multi-Mode 50/125 µm Fiber (OM3/ OM4/OM5)	Single Mode 9/125 µm Fiber
Input Level (Receive Power) dBm	+2.4dBm to -11 dBm	+5.5dBm to -8.6dBm	+2.5dBm to -10.0dBm	+3.4dBm to -9.5dBm	+4.0dBm to -7.9dBm	-3.9dBm to -16.6dBm
Output Level (Transmit Power) dBm	+2.4dBm to -8.4dBm	+4.5dBm to -4.3dBm	+2.5dBm to -6.5dBm	+3.3dBm to -6.5dBm	+4.0dBm to -6.0dBm	+2.9dBm to -2.9dBm
Supported NIC	CPAC-2-40/100F-D	CPAC-2-40/100F-D	CPAC-2-40/100F-D	CPAC-2-40/100F-D	CPAC-2-40/100F-D	CPAC-2-40/100F-D

See sk92755 for more information

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Direct Attached Cables (10G, 25G, 40G And 100G)

SKU	CPAC-DAC-10G-1M-D CPAC-DAC-10G-3M-D CPAC-DAC-10G-5M-D	CPAC-DAC-25G-1M-D CPAC-DAC-25G-3M-D CPAC-DAC-25G-5M-D	CPAC-DAC-40G-1M-D CPAC-DAC-40G-3M-D CPAC-DAC-40G-5M-D	CPAC-DAC-100G-1M-DM CPAC-DAC-100G-3M-DM CPAC-DAC-100G-5M-DM
Supported Models	9000, 19200, 29000	9000, 19200, 29000	9000, 19200, 29000	9000, 19200, 29000
Form Factor	SFP+	SFP28	QSFP+	QSFP28
Protocol	10BASE-CU	25GBASE-CR1	40BASE-CR4	100BASE-CR4
Distance (Max)	3m	3m	3m	3m
Cable Type	30/30/24 AWG	30/28/26 AWG	30/30/28 AWG	30/26/26 AWG
Compatible	SFP+ MSA, SFF-8431, SFF-8432	SFP28 MSA, SFF-8402, SFF-8436	QSFP+ MSA, SFF-8436, SFF-8685	QSFP+ MSA, SFF-8436, SFF-8685
Operation Relative Humidity	10 to 90%	5 to 85%	5 to 85%	5 to 85%
Supported NICs	CPAC-8-1/10F-D, CPAC-4-10/25F-D CPAC-4-10/25F-DA CPAC-2-40/100F-D(w/Adapter)	CPAC-4-10/25F-D CPAC-4-10/25F-DA CPAC-2-40/100F-D(w/Adapter)	CPAC-2-40/100F-D	CPAC-2-40/100F-D

See sk148192 for more information

Storage

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

Redundant Storage Options

	9100, 9200, 9300	9400	9700, 9800	19000	29000
SSD Options	480 SATA	960GB SATA	960GB NVMe	960GB NVMe	960GB NVMe
Dual Redundant Drive	-	-	Optional in Base, Included in Plus	Optional in Base, Included in Plus	Optional in Base, Included in Plus
RAID Setup	-	-	RAID-1	RAID-1	RAID-1

Antennas

SKU	CPAC-2550-ANTENNA	CPAC-2570-ANTENNA
Supported Models	2550W	2570W / 2570W5G

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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 GAiA Web UI.

Power Supply Options

	9100, 9200	9300, 9400, 9700, 9800	19000	29000
Redundant Power Supply	Included	Optional	Included	Included
Redundant Power Supply BASE / PLUS	2 / 2	1 / 2	2 / 2	2 / 2

Power Supply Specification

	2500/3900	9300, 9400	9700, 9800	19000	29000
SKU	CPAC-2570W5G/2590/3920/3950-PSU	CPAC-PSU-AC-9300/9400	CPAC-PSU-AC-9700/9800	CPAC-PSU-AC-19000	CPAC-PSU-AC-29000
AC Power Input	100 to 240V (50-60Hz)	100 to 240V (47-63Hz)	100 to 240V (47-63Hz)	100 to 240V (47-63Hz)	100 to 240V (47-63Hz)
Output Power	60W (external DC)	320W	450W	850W	1300W

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

SKU	9000	19000	29000
LOM	Optional in Base, Included in Plus	Optional in Base, Included in Plus	Optional in Base, Included in Plus

Lights-Out Management Specification

SKU	FEATURES
CPAC-NLOM-D	LOM/IPMI module with front 1 GbE RJ-45

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Rack Mount Options

Slide rails provide simple installation (5-10 minutes) and easy maintenance access for 19000 and 29000 Security Appliances in a standard 19-inch (48.26 cm) rack (see specification EIA-310-D).

Rack Kit Specification

	SKU	DESCRIPTION
25XX,39XX	CPAC-2590/2680/3900-RM-EARS	Rack Mount ears for 2570, 2590, 2680, 3920, 3950
	CPAC-2500/3900-RM-DUAL	Rack Mount shelf for Single/Dual 2500/ 3920/ 3950 Desktop size appliances. (not for Wi-Fi Models)
9000	CPAC-Rails-9000 CPAC-RAILS-EXT-9000	Single/Dual 9000 1U Shelf Rack Mount
19000, 29000	CPAC-RAIL-L CPAC-RAIL-EXT-L	22 in (55.9 cm) to 32 in (81.3 cm) 24 in (61 cm) to 36 in (91.4 cm)

Memory

Additional system memory increases connection capacity and improves the overall ability of the security appliance.

Memory Options

	19200	29100	29200
Base GB	96	128	128
Plus GB	128	192	192
Maximums GB	128	256	256

Memory Upgrade Fru Kits

Model	SKU	Start	Target	Modules
9100, 9200, 9300, 9400	CPAC-RAM16GB-9100/9400	16	32	2x 8GB ECC DDR4
9100, 9200, 9300, 9400	CPAC-RAM32GB-9100/9400	32	64	4x 16GB ECC DDR4
9100, 9200, 9300, 9400	CPAC-RAM48GB-9100/9400	16	64	4x 16GB ECC DDR4
9700, 9800	CPAC-RAM32GB-9700/9800	32	64	4x 8GB ECC DDR4
9700, 9800	CPAC-RAM64GB-9700/9800	64	128	8x 16GB ECC DDR4
9700, 9800	CPAC-RAM96GB-9700/9800	32	128	8x 16GB ECC DDR4
19000	CPAC-RAM32GB-19000	96	128	4x 8GB ECC DDR4
29000	CPAC-RAM64GB-29000	128	192	4x 16GB ECC DDR4
19000/29000	CPAC-RAM128GB-29000	128	256	8x 16GB ECC DDR4

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CHECK POINT 2021 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.

		1 GbE Copper	1 GbE Fiber	10 GbE	10/25/40/100 GbE	Memory	Redundant Storage	Redundant Power	LOM
Perimeter	1600	18	2	0	0	-	✗	✗	-
	1800	18	2	1	0	-	✓	✓	-
	1900	18	0	4	0	-	✓	✓	-
	2000	18	0	4	0	-	✓	✓	-
6200	Base	10	0	0	-	8GB	-	-	✗
	Plus	10	4	0	-	16GB	-	✓	✓
	Maximums	18	4	4	-	32GB	-	✓	✓
6400	Base	10	0	0	-	8GB	-	✗	✗
	Plus	10	4	0	-	16GB	-	✓	✓
	Maximums	18	4	4	-	32GB	-	✓	✓
6600	Base	10	0	0	-	8GB	-	✗	✗
	Plus	10	0	4	-	16GB	-	✓	✓
	Maximums	18	4	4	-	32GB	-	✓	✓
6700	Base	10	0	0	-	8GB	-	✗	✗
	Plus	10	0	4	-	16GB	-	✓	✓
	Maximums	18	4	4	-	32GB	-	✓	✓

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		1 GbE Copper	1 GbE Fiber	10 GbE	10/25/40/100 GbE	Memory	Redundant Storage	Redundant Power	LOM
6900	Base	10	0	0	-	16GB	✗	✗	✗
	Plus	10	0	4	-	32GB	✓	✓	✓
	Maximums	26	8	8	2	64GB	✓	✓	✓
7000	Base	10	0	0	-	16GB	✗	✗	✗
	Plus	10	0	4	-	32GB	✓	✓	✓
	Maximums	26	8	8	2	64GB	✓	✓	✓
Spark 16200	Base	10	0	0	-	48GB	✗	✗	✗
	Plus	10	0	8	-	64GB	✓	✓	✓
	Maximums	34	16	16	4	128GB	✓	✓	✓
26000	Base	10	0	0	-	48GB	✗	✓	✗
	Plus	10	0	12	-	96GB	✓	✓	✓
	Maximums	66	32	32	8	128GB	✓	✓	✓
28000	Base	2	0	4	-	64GB	✗	✓	✗
	Plus	10	0	12	2	96GB	✓	✓	✓
	Maximums	66	32	32	8	128GB	✓	✓	✓
Lightspeed	QLS250	2	0	8	*2	128GB	✓	✓	✓
	QLS450	2	0	8	*4	192GB	✓	✓	✓
	QLS650	2	0	8	*6	192GB	✓	✓	✓
	QLS800	2	0	0	*8	192GB	✓	✓	✓
	MLS200	10	0	0	*2	64GB	✓	✓	✓
	MLS400	2	0	0	*4	192GB	✓	✓	✓

This is optional, *Lightspeed (QLS) 100GbE ports accelerate firewall throughput at ultra-low latency

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Network Accessories

	6200 - 6700	7000	16200	26000, 28000	QLS Lightspeed
Expansion Slots	1	2	4	8	-

Network I/O Modules

SKU	CPAC-8-1F-C	CPAC-4-1F-C	CPAC-4-10F-C	CPAC-2-40/100F-C
				
Supported Models	6000, 7000, 16200, 26000, 28000	6000, 7000, 16200, 26000, 28000	6000, 7000, 16200, 26000, 28000, QLS	6900, 7000, 16200, 26000, 28000, QLS

SKU	CPAC-8-1F-C	CPAC-4-1F-C	CPAC-4-10F-C	CPAC-2-40/100F-C
Transceivers/DACs		CPAC-TR-1T-C CPAC-TR-1SX-C CPAC-TR-1LX-C w/adapter	CPAC-TR-10ER-C CPAC-TR-10LR-C CPAC-TR-10LR-CM CPAC-TR-10SR-C CPAC-TR-10T-C	CPAC-TR-10T-ADP CPAC-TR-10SR-ADP CPAC-TR-10LR-ADP CPAC-TR-10ER-ADP CPAC-TR-25LR-ADP CPAC-TR-25SR-ADP CPAC-TR-40SR-QSFP-100m CPAC-TR-40SR-QSFP-300m CPAC-TR-40SR-QSFP-BiDi CPAC-TR-40LR-QSFP-10Km CPAC-TR-40SWDM4 CPAC-TR-40ER4 CPAC-TR-100LR CPAC-TR-100SR CPAC-TR-100SWDM4 CPAC-TR-100CWDM4 CPAC-TR-100SR-BiDi CPAC-TR-100ERL4 CPAC-DAC-10G-1M CPAC-DAC-10G-3M CPAC-DAC-10G-5M CPAC-DAC-25G-1M CPAC-DAC-25G-3M CPAC-DAC-25G-5M CPAC-DAC-40G-1M CPAC-DAC-40G-3M CPAC-DAC-40G-5M CPAC-DAC-100G-1M-DM CPAC-DAC-100G-3M-DM CPAC-DAC-100G-5M-DM

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SKU	CPAC-8-1F-C	CPAC-4-1F-C	CPAC-4-10F-C	CPAC-2-40/100F-C
DACs	N/A	N/A	CPAC-DAC-10G-1M CPAC-DAC-10G-3M CPAC-DAC-10G-5M	CPAC-DAC-10G-1M CPAC-DAC-10G-3M CPAC-DAC-10G-5M CPAC-DAC-25G-1M CPAC-DAC-25G-3M CPAC-DAC-25G-5M CPAC-DAC-40G-1M CPAC-DAC-40G-3M CPAC-DAC-40G-5M CPAC-DAC-100G-1M-DM CPAC-DAC-100G-3M-DM CPAC-DAC-100G-5M-DM

SKU	CPAC-8-1C-C	CPAC-4-1F-C	CPAC-4-10F-C	CPAC-2-40/100F-C
Supported Models	6000, 7000, 16200, 26000, 28000	6000, 7000, 16200, 26000, 28000	6000, 7000, 16200, 26000, 28000, QLS	6900, 7000, 16200, 26000, 28000, QLS
Number of Ports	8	4	4	2
Port Types	RJ-45 (Copper) 10/100/1000Base-T	SFP	SFP+	QSFP28
Speed	10M/100M/1 Gbps	1 Gbps	1/10 Gbps	100 Gbps
DACs	N/A	N/A	CPAC-DAC-10G-1M CPAC-DAC-10G-3M CPAC-DAC-10G-5M	CPAC-DAC-100G-1M-DM CPAC-DAC-100G-3M-DM CPAC-DAC-100G-5M-DM CPAC-DAC-40G-1M CPAC-DAC-40G-3M CPAC-DAC-40G-5M CPAC-DAC-25G-1M CPAC-DAC-25G-3M CPAC-DAC-25G-5M CPAC-DAC-10G-1M CPAC-DAC-10G-3M CPAC-DAC-10G-5M

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Network Transceiver Specification (1G Transceivers)

SKU	CPAC-TR-1T-C	CPAC-TR-1SX-C	CPAC-TR-1LX-C	CPAC-1500-TR-1SX	CPAC-1500-TR-1LX
					
Supported Models	6000, 7000, 16200, 26000, 28000	6000, 7000, 16200, 26000, 28000	6000, 7000, 16200, 26000, 28000	1575, 1595, 1800, 1900, 2000	1575, 1595, 1800, 1900, 2000
Form Factor	SFP	SFP	SFP	SFP	SFP
Protocol	1000Base-T	1000Base-SX	1000Base-LX	1000Base-SX rugged	1000Base-LX
Wavelength (nm)	-	840 to 860	1260 to 1355	840 to 860	1260 to 1355
Connector	RJ-45	LC	LC	LC	LC
Distance (Max)	100m	300m (OM1) 550m (OM2)	10km	550m	10K
Supported Cable Type	CAT 5	multi-mode 62.5/125 µm Fiber (OM1) 50/125 µm Fiber (OM2)	Single mode 9/125 µm Fiber	multi-mode	Single mode fiber (SMF)
Input Level (Receive Power) dBm	N/A	0 to -18dBm	0 to -19dBm	0dBm	-3dBm
Output Level (Transmit Power) dBm	N/A	-2.5 to -9dBm	-3 to -9.5dBm	-3 to -9.5dBm	-3 to -9.5dBm
Supported NIC	CPAC-4-1F-C	CPAC-4-1F-C	CPAC-4-1F-C	can	NA

SKU	CPAC-TR-10T-C	CPAC-TR-10SR-C CPAC-TR-10SR-B	CPAC-TR-10LR-C CPAC-TR-10LR-CM CPAC-TR-SRLR-B	CPAC-TR-10ER-C	CPAC-1800-TR-10SR	CPAC-1800-TR-10LR
						
Supported Models	6000, 7000, 16200, 26000, 28000, QLS, MLS, 1900, 2000	6000, 7000, 16200, 26000, 28000, QLS, MLS	6000, 7000, 16200, 26000, 28000, QLS, MLS	6000, 7000, 16200, 26000, 28000, QLS, MLS	1800, 1900, 2000	1800, 1900, 2000
Form Factor	SFP+	SFP+	SFP+	SFP+	SFP+	SFP+
Protocol	10GBASE-T	10GBASE-SR	10GBASE-LR	10GBASE-ER	1000Base-SX / 10GBase-SR Ethernet	1GBase-LX / 10GBase-LR
Wavelength (nm)	-	840 to 860	1260 to 1355	1530 to 1565	840 to 860	1260 to 1355
Connector	RJ-45	LC	LC	LC	Duplex LC	Duplex LC
Distance (Max)	30m	**1GbE** 220m(OM1) 550m(OM2) >550m (OM3) >550m(OM4) **10GbE** 26m(OM1) 82m(OM2) 300m(OM3) 400m(OM4)	10km	40km	**1GbE** 220m (OM1) 500m (OM2) 550m (OM3) >550m (OM4) **10GbE** 26m (OM1) 82m (OM2) 300m (OM3) 400m (OM4)	10km

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SKU	CPAC-TR-10T-C	CPAC-TR-10SR-C CPAC-TR-10SR-B	CPAC-TR-10LR-C CPAC-TR-10LR-CM CPAC-TR-SRLR-B	CPAC-TR-10ER-C	CPAC-1800-TR-10SR	CPAC-1800-TR-10LR
Supported Cable Type	CAT6a, CAT7	multi-mode 62.5/125 µm Fiber(OM1) 50/125 µm Fiber(OM2) 50/125 µm Fiber(OM3) 50/125 µm Fiber(OM4)	Single mode 9/125 µm Fiber	Single Mode 9/125 µm Fiber	multi-mode 62.5/125 µm Fiber(OM1) 50/125 µm Fiber(OM2) 50/125 µm Fiber(OM3) 50/125 µm Fiber(OM4)	Single Mode 9/125 µm Fiber
Input Level (Receive Power) dBm	N/A	+0.5 - 12.5dBm (1GbE) +0.5 - 13.5dBm (1GbE) +0.5 -11.1dBm (10GbE) 62.5 um MMF 50 um MMF 50 um MMF	3 to-19dBm (1GbE mode) +0.5 to -12.6dBm (10GbE mode)	+0.5 - 16dBm	**1GbE** +0.5 to -9.9dBm (1GbE) +0.5 to -9.9dBm (1GbE) **10GbE** 62.5 um MMF 50 um MMF	0.5dBm
Output Level (Transmit Power) dBm	N/A	-1 to -9.5dBm (1GbE mode) -1 to -5dBm (10GbE mode)	-3 to -11dBm (1GbE mode) +0.5 to -8.2dBm (10GbE mode)	+4 - 4dBm	-1.2 to -7.3dBm (1GbE)	-8.2 - 0.5dBm
Supported NICs	CPAC-4-10F-C CPAC-2-40/100-FC w/adapter	CPAC-4-10F-C CPAC-2-40/100F-FC w/adapter	CPAC-4-10F-C CPAC-2-40/100 w/adapter	CPAC-4-10F-C CPAC-2-40/100-FC w/adapter	N/A	N/A

Network Transceiver Specification (25G Transceivers)

SKU	CPAC-TR-25SR-ADP	CPAC-TR-25LR-ADP
		
Supported Models	16200, 16600,26000, 28000, 28600, QLS, MLS	16200, 16600,26000, 28000, 28600, QLS, MLS
Form Factor	SFP28 with QSFP28 adaptor	SFP28 with QSFP28 adaptor
Protocol	25GBASE-SR	25GBASE-LR
Wavelength (nm)	840 to 860	1260 to 1355
Connector	LC	LC
Distance (Max)	20m(OM2) 70m(OM3) 100m(OM4)	10km
Supported Cable Type	50/125 µm Fiber(OM2) 50/125 µm Fiber(OM3) 50/125 µm Fiber(OM4)	Single Mode 9/125 µm Fiber
Input Level (Receive Power) dBm	+2dBm to -11.dBm	+2dBm to -12dBm
Output Level (Transmit Power) dBm	+2.4dBm to -8.4dBm	+2dBm to -5dBm
Supported NIC	CPAC-2-40/100F-FC	CPAC-2-40/100F-FC

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Network Transceiver Specification (100G Transceivers)

SKU	CPAC-TR-100SR	CPAC-TR-100LR	CPAC-TR-100CWDM4	CPAC-TR-100SWDM4	CPAC-TR-100SR-BiDi	CPAC-TR-100ERL4
						
Supported Models	16200, 16600, 26000, 28000, 28600, QLS, MLS	16200, 16600, 26000, 28000, 28600, QLS, MLS	16200, 16600, 26000, 28000, 28600, QLS, MLS	16200, 16600, 26000, 28000, 28600, QLS, MLS	16200, 16600, 26000, 28000, 28600, QLS, MLS	16200, 16600, 26000, 28000, 28600, QLS, MLS
Form Factor	QSFP28	QSFP28	QSFP28	QSFP28	QSFP28	QSFP28
Protocol	100GBase-SR4	100GBase-LR4	100GBASE-CWDM4	100GBASE-SWDM4	100GBASE-SR1.2	100GBASE-ERL4
Wavelength (nm)	840 to 860	1295,1300, 1304,1309	1271, 1291, 1311, 1331	850,880, 910,940	855, 908	1295, 1300, 1304, 1309
Connector	MPO-12	LC	LC	LC	LC	LC
Distance (Max)	70m(OM3) 100m(OM4)	10km	2km	75m(OM3) 100m(OM4) 150m(OM5)	70m(OM3) 100m(OM4/5)	40km
Supported Cable Type	50/125 µm Fiber(OM3) 50/125 µm Fiber(OM4)	single mode 9/125 µm Fiber	single mode 9/125 µm Fiber	50/125 µm Fiber(OM3) 50/125 µm Fiber(OM4) 50/125 µm Fiber(OM5)	Multi-Mode 50/125 µm Fiber(OM3/ OM4/OM5)	Single Mode 9/125 µm Fiber
Input Level (Receive Power) dBm	+2.4dBm to -10.3dBm	+4.5dBm to -10.6dBm	+2.5dBm to -10dBm	+3.4dBm to -9.5dBm	+4.0dBm to -7.9dBm	-3.9dBm to -16.6dBm
Output Level (Transmit Power) dBm	+2.4dBm to -8.4dBm	+4.5dBm to -4.3dBm	+2.5dBm to -4dBm	-3dBm to -5.5dBm	+4.0dBm to -6.0dBm	+2.9dBm to -2.9dBm
Supported NIC	CPAC-2-40/100F-FC	CPAC-2-40/100F-FC	CPAC-2-40/100F-FC	CPAC-2-40/100F-FC	CPAC-2-40/100F-FC	CPAC-2-40/100F-FC

See SecureKnowledge sk92755 for more information

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Direct Attached Cables (10G, 25G, 40G and 100G)

SKU	CPAC-DAC-10G-1M CPAC-DAC-10G-3M CPAC-DAC-10G-5M	CPAC-DAC-25G-1M CPAC-DAC-25G-3M CPAC-DAC-25G-5M	CPAC-DAC-40G-1M CPAC-DAC-40G-3M CPAC-DAC-40G-5M	CPAC-DAC-100G-1M-DM CPAC-DAC-100G-3M-DM CPAC-DAC-100G-5M-DM
Supported Models	5600, 5800, 5900, 6000, 7000, 15000, 16200, 23000, 26000, 28000, QLS, MLS	16200, 26000, 28000, QLS, MLS	5800, 6700, 6900, 7000, 15000, 16200, 16600, 23000, 26000, 28000, 28600, QLS, MLS	16200, 16600, 26000, 28000, 28600, QLS, MLS
Form Factor	SFP+	SFP28	QSFP+	QSFP28
Protocol	10BASE-CU	25GBASE-CR1	40BASE-CR4	100BASE-CR4
Distance (Max)	1M/3m	1m/3m	1m/3m	1m/3m/50
Cable Type	30/30/24 AWG	30/28/26 AWG	30/30/28 AWG	30/26/26 AWG
Compatible	SFP+ MSA, SFF-8431, SFF-8432	SFP28 MSA, SFF-8402, SFF-8436	QSFP+ MSA, SFF-8436, SFF-8685	QSFP+ MSA, SFF-8436, SFF-8685
Operation Relative Humidity	10 to 90%	5 to 85%	5 to 85%	5 to 85%
Matching I/O Modules	CPAC-4-10F-C CPAC-2-40/100F-FC	CPAC-2-40/100F-FC	CPAC-2-40/100-C	CPAC-2-40/100F-FC
Direct Attached Cables (10G, 25G, 40G and 100G)	w/adapter	w/adapter	w/adapter	w/adapter

See SecureKnowledge sk148192 for more information

Fail-Open Network I/O Modules (6000, 7000, 16000, 26000, 28000)

SKU	CPAC-4-1C-BP-C	CPAC-2-10FSR-BP-C
Supported Models	6200, 6400, 6600, 6700, 6900, 7000, 16200, 26000, 28000	6200, 6400, 6600, 6700, 6900, 7000, 16200, 26000, 28000
Number of Ports	4	2
Port Types	RJ-45 (copper) 10/100/1000Base-T	SFP+ 10GBase-SR
Speed	1 Gbps	10 Gbps
Transceivers	NA	included

Storage

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

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Redundant Storage Options

	3000, 6200 - 6600	6700	6900, 7000, 16200, 16600, 26000, 28000, 28600	MLS200	QLS, MLS400
SSD Options	1x 240GB	1x 480GB	1x 480GB	2x 480GB	2x 960GB
Redundant Drive	NA	NA	Optional	✓	✓
RAID Setup			RAID1	RAID1	RAID1

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 GAiA Web UI.

Power Supply Options

	3000	6200, 64001	6600, 6700, 7000, 6900, 16200	16600, 26000, 28000, 28600, QLS, MLS
Redundant Power Supply	Optional	NA	Optional	Included
DC Power Supply	NA	NA	Optional	Optional

[1] 6200, 6400 power supplies are not Field Replaceable Units (FRU)

Power Supply Specification (6000, 7000)

	6600, 6700, 6900	7000, MLS200
AC SKU	CPAC-PSU-AC-6600/6700/6900	CPAC-PSU-AC-7000/MLS200
AC Power Input	100 to 240V (47-63Hz)	100 to 240V (47-63Hz)
Output Power	300W	500W

Power Supply Specification (16000, 26000, Lightspeed)

	16200. QLS250	16600, 26000, 28000, 28600, QLS450, QLS650, QLS800, MLS400
AC SKU	CPAC-PSU-AC-16000	CPAC-PSU-AC-26000/28000/MLS400
AC Power Input	100 to 240V (47-63Hz)	100 to 240V (47-63Hz)
Output Power	1300W	850W

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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

	3000	6000, 7000, 16200, 26000, 28000	16600, 28600, QLS, MLS
LOM	NA	Optional	Included

Lights-Out Management Specification

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

Memory

Additional system memory increases connection capacity and improves the overall ability of the security appliance.

Memory Options

	3000	6200 6700	6900 7000	16200	16600	26000	28000 MLS200	28600	QLS250	QLS450 QLS650 QLS800 MLS400
Base GB	8	8	16	48	128	48	64	192	128	192
Plus GB	16	16	32	64	-	96	96	-	-	-
Maximums GB	NA	32	64	128	128	128	128	192	128	192

* Plus options are not available in the QLS or MLS models, max memory of the MLS200 is 64 GB

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Memory Specification

Model	SKU	Start	Target	Modules
6200	CPAC-RAM8GB-6200	8	16	1x 8GB DDR4
	CPAC-RAM16GB-6200	16	32	1x 16GB DDR4
	CPAC-RAM24GB-6200	8	32	3x 8GB DDR4
6400	CPAC-RAM8GB-6400	8	16	1x 8GB DDR4
	CPAC-RAM16GB-6400	16	32	1x 16GB DDR4
	CPAC-RAM24GB-6400	8	32	3x 8GB DDR4
6600	CPAC-RAM8GB-6600	8	16	1x 8GB DDR4
	CPAC-RAM16GB-6600	16	32	2x 8GB DDR4
	CPAC-RAM24GB-6600	8	32	3x 8GB DDR4
6700	CPAC-RAM8GB-6700	8	16	1x 8GB DDR4
	CPAC-RAM16GB-6700	16	32	2x 8GB DDR4
	CPAC-RAM32GB-6700	8	32	3x 8GB DDR4
6900	CPAC-RAM16GB-6900	16	32	2x 8GB DDR4
	CPAC-RAM48GB-6900	16	64	4x 16GB DDR4
	CPAC-RAM32GB-6900	32	64	2x 16GB DDR4
7000	CPAC-RAM16GB-7000	16	32	1x 16GB DDR4
	CPAC-RAM32GB-7000	32	64	2x 16GB DDR4
	CPAC-RAM48GB-7000	16	64	3x 16GB DDR4
16200	CPAC-RAM16GB-16000	48	64	2x 8GB ECC DDR4
	CPAC-RAM64GB-16000	64	128	8x 8GB ECC DDR4
	CPAC-RAM80GB-16000	48	128	10x 8GB ECC DDR4
26000	CPAC-RAM48GB-26000	48	96	4x 8GB ECC DDR4
	CPAC-RAM32GB-26000	96	128	4x 8GB ECC DDR4
	CPAC-RAM80GB-26000	48	128	10x 8GB ECC DDR4
28000	CPAC-RAM32GB-28000	64	96	4x 8GB ECC DDR4
	CPAC-RAM32GB-28000	96	128	4x 8GB ECC DDR4
	CPAC-RAM64GB-28000	64	128	8x 8GB ECC DDR4

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Rack Mount Options

Slide rails provide simple installation (5-10 minutes) and easy maintenance access for 6000, 7000, 16000, 26000, 28000 and Lightspeed Security Appliances in a standard 19-inch (48.26 cm) rack (see specification EIA-310-D). For the desktop form factor of the 3000 Security Appliances, shelf rack mount kits available. Slide rails are optional in the 6200 and 6400, included in the 6600 to 28000.

Rack Kit Specification

	SKU	DEPTH
16200, 16600,26000, 28000, 28600, QLS, MLS	CPAC-RAIL-L CPAC-RAIL-EXT-L	22 in (55.9 cm) to 32 in (81.3 cm) 24 in (61 cm) to 36 in (91.4 cm)
6000, 7000	CPAC-RAILS-6000/7000 CPAC-RAIL-EXT-6000/7000	22 in (55.9 cm) to 32 in (81.3 cm) 24 in (61 cm) to 36 in (91.4 cm)
3600, 3800	CPAC-1500/3600/3800-RM-DUAL	Single/Dual 3000 1U Shelf Rack Mount L-23" x W-19" x H-3" (58.4 x 48.3 x 7.6 cm)
1535/1555/1575/1595	CPAC-1500/3600/3800-RM-DUAL	
1575R/1595R	CPAC-157xR/159xR-RM-DUAL	

Maestro MH0 - Expand Network Capacity, Increase Performance & Reliability

Network Transceiver Specification (1G Transceivers)

SKU	CPAC-TR-1T-B CPAC-TR-1T-C CPAC-TR-1T-D	CPAC-TR-1SX-B CPAC-TR-1SX-C CPAC-TR-1SX-D	CPAC-TR-1LX-B CPAC-TR-1LX-C CPAC-TR-1LX-D
			
Supported Models	MH0140	MH0140	MH0140
Form Factor	SFP	SFP	SFP
Protocol	1000Base-T	1000Base-SX	1000Base-LX
Wavelength (nm)	-	840 to 860	1260 to 1355
Connector	RJ-45	LC	LC
Distance (Max)	100m	300m (OM1) 550m (OM2)	10km
Supported Cable Type	CAT 5	multi-mode 62.5/125 µm Fiber (OM1) 50/125 µm Fiber (OM2)	Single mode 9/125 µm Fiber
Input Level (Receive Power) dBm	N/A	0 to -18dBm	0 to -19dBm
Output Level (Transmit Power) dBm	N/A	-2.5 to -9dBm	-3 to -9.5dBm

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Network Transceiver Specification (10G Transceivers)

SKU	CPAC-TR-10T-D CPAC-TR-10T-C	CPAC-TR-10SR-B CPAC-TR-10SR-C	CPAC-TR-10LR-B CPAC-TR-10LR-C CPAC-TR-10LR-CM	CPAC-TR-10ER-C	CPAC-TR-10SR-D* *10GbE mode only	CPAC-TR-10LR-D *10GbE mode only
						
Supported Models	MH0140	MH0140	MH0140	MH0140	MH0140	MH0140
Form Factor	SFP+	SFP+	SFP+	SFP+	SFP+	SFP+
Protocol	1GBASE-T	10GBASE-SR	10GBASE-LR	10GBASE-ER	10GBASE-SR	10GBASE-LR
Wavelength (nm)	-	840 to 860	1260 to 1355	1530 to 1565	840 to 860	1260 to 1355
Connector	RJ-45	LC	LC	LC	LC	LC
Distance (Max)	10m	**1GbE** 220m(OM1) 550m(OM2) >550m (OM3) >550m(OM4) 26m(OM1) 82m(OM2) 300m(OM3) 400m(OM4)	10km	**1GbE** 220m(OM1) 550m(OM2) >550m (OM3) >550m(OM4)	26m(OM1) 82m(OM2) 300m(OM3) 400m(OM4)	10km
Supported Cable Type	CAT6a, CAT7	multi-mode 62.5/125 µm Fiber(OM1) 50/125 µm Fiber(OM2) 50/125 µm Fiber(OM3) 50/125 µm Fiber(OM4)	Single mode 9/125 µm Fiber	Single Mode 9/125 µm Fiber	multi-mode 62.5/125 µm Fiber(OM1) 50/125 µm Fiber(OM2) 50/125 µm Fiber(OM3) 50/125 µm Fiber(OM4)	Single Mode 9/125 µm Fiber
Input Level (Receive Power) dBm	N/A	**1GbE** +0.5 - 12.5dBm +0.5 - 13.5dBm **1GbE** 62.5 um MMF 50 um MMF **10GbE** +0.5 -11.1dBm **10GbE** 50 um MMF	-3 to-19dBm (1GbE mode) +0.5 to -12.6dBm (10GbE mode)	**1GbE** +0.5 - 12.5dBm +0.5 - 13.5dBm **10GbE** +0.5 -11.1dBm	+0.5 -11.1dBm 62.5 um MMF 50 um MMF 50 um MMF	+0.5 to -12.6dBm
Output Level (Transmit Power) dBm	N/A	-1 to -9.5dBm (1GbE mode) -1 to -5dBm (10GbE mode)	-3 to -11dBm (1GbE mode) +0.5 to -8.2dBm (10GbE mode)	+4 - 4dBm	-5dBm	-8.2dBm

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QSFP28 Adaptors With 10GbE Transceivers

Composed of a QSFP28 adapter with an SFP+ transceiver to connect a Check Point security appliance QSFP28 port to a network SFP+ port. The graphic shows an adapter without the transceiver (top) and the adapter with an SFP+ transceiver inserted in the adapter (bottom).

Supported on Maestro MH0175.



	ADAPTOR	TRANSCEIVER
CPAC-TR-10SR-ADP: QSFP28 adaptor with SFP+ transceiver module for short range links.	QSFP28	SFP+ 10GBase-SR
CPAC-TR-10LR-ADP: QSFP28 adaptor with SFP+ transceiver module for links up to 10km.	QSFP28	SFP+ 10GBase-LR
CPAC-TR-10ER-ADP: QSFP28 adaptor with SFP+ transceiver module for links up to 40km.	QSFP28	SFP+ 10GBase-ER
CPAC-TR-10T-ADP: QSFP28 adaptor with SFP+ transceiver module for links up to 30m over CAT6A or CAT7.	QSFP28	10GBASE-T RJ45 Copper

Network Transceiver Specification (25G Transceivers)

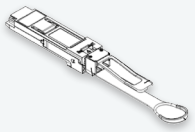
SKU	CPAC-TR-25SR-ADP CPAC-TR-25SR-D-ADP CPAC-TR-25SR-DM-ADP	CPAC-TR-25LR-ADP CPAC-TR-25LR-ADP-D	CPAC-TR-25SR CPAC-TR-25SR-D	CPAC-TR-25LR-D
				
Supported Models	MH0175	MH0175	MH0140	MH0140
Form Factor	SFP28 with QSFP28 adaptor	SFP28 with QSFP28 adaptor	SFP28	SFP28
Protocol	25GBASE-SR	25GBASE-LR	25GBASE-SR	25GBASE-LR
Wavelength (nm)	840 to 860	1260 to 1355	840 to 860	1260 to 1355
Connector	LC	LC	LC	LC
Distance (Max)	20m(OM2) 70m(OM3) 100m(OM4)	10km	20m(OM2) 70m(OM3) 100m(OM4)	10Km
Supported Cable Type	50/125 µm Fiber(OM2) 50/125 µm Fiber(OM3) 50/125 µm Fiber(OM4)	Single Mode 9/125 µm Fiber	50/125 µm Fiber(OM2) 50/125 µm Fiber(OM3) 50/125 µm Fiber(OM4)	Single Mode 9/125 µm Fiber
Input Level (Receive Power) dBm	+2.5dBm to -11.dBm	+2dBm to -12.dBm	+2.5dBm to -11dBm	+2dBm to -12dBm
Output Level (Transmit Power) dBm	+2.5dBm to -8.4dBm	+2dBm to -7dBm	+2.5dBm to -8.4dBm	+2dBm to -7dBm

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QSFP28 Adaptors With 25GbE Transceivers

Composed of a QSFP28 adapter with an SFP28 transceiver to connect a Check Point security appliance QSFP28 port to a network SFP28 port. The graphic shows an adapter with an SFP28 transceiver inserted in the adapter.

Supported on Maestro MH0175.



	ADAPTOR	TRANSCEIVER
CPAC-TR-25SR-ADP: QSFP28 adaptor with SFP28 transceiver module for short range links.	QSFP28	SFP28 25GBase-SR
CPAC-TR-25LR-ADP: QSFP28 adaptor with SFP28 transceiver module for links up to 10km.	QSFP28	SFP28 25GBase-LR

Network Transceiver Specification (40G Transceivers)

SKU	CPAC-TR-40SR-QSFP-100m CPAC-TR-40SR-QSFP-100m-D	CPAC-TR-40SWDM4	CPAC-TR-40SR-QSFP-300m CPAC-TR-40SR-QSFP-300m-D	CPAC-TR-40LR-QSFP-10Km CPAC-TR-40LR-QSFP-10Km-D	CPAC-TR-40ER4	CPAC-TR-40SR-QSFP-BiDi CPAC-TR-40SR-QSFP-BiDi-D
						
Supported Models	MH0140/170/175	MH0140/170/175	MH0140/170/175	MH0140/170/175	MH0140/175	MH0140/170/175
Form Factor	QSFP+	QSFP+	QSFP+	QSFP+	QSFP+	QSFP+
Protocol	40GBase-SR4	40GBASE-SWDM4	40GBase-SR4	40GBase-LR4	40GBASE-ER4	40GBase-SR-BiDi
Wavelength (nm)	840 to 860	840 to 860	840 to 860	1271,1291,1311,1331	1271,1291,1311,1331	832, 918
Connector	MPO-12	LC	MPO-12	LC	LC	LC
Distance (Max)	100m (OM3) 150m (OM4)	300m (OM3) 400m (OM4)	300m (OM3) 400m (OM4)	10km	40km	100m (OM3) 150m (OM4)
Supported Cable Type	multi-mode 50/125 µm fiber (OM3) 50/125 µm Fiber (OM4)	Multi-Mode 50/125 µm Fiber(OM3/OM4)	multi-mode 50/125 µm fiber (OM3) 50/125 µm Fiber(OM4)	single mode 9/125 µm Fiber	Single Mode 9/125 µm Fiber	multi-mode 50/125 µm fiber (OM3) 50/125 µm Fiber(OM4)
Input Level (Receive Power) dBm	+0dBm to -7.6dBm	+3.0dBm to -9.0dBm	+4dBm to -11.1dBm	+3.5dBm to -11.5dBm	-4.5dBm to -21.2dBm	+5dBm to -9.1dBm
Output Level (Transmit Power) dBm	+2.5dBm to -9.5dBm	+3.0dBm to -7.5dBm	+0.5dBm to -7.5dBm	+2.3dBm to -7dBm	+4.5dBm to -3.7dBm	+5dBm to -4dBm

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Network Transceiver Specification (100G Transceivers)

SKU	CPAC-TR-100SR-DM-MH0-140/170 CPAC-TR-100SR-DM	CPAC-TR-100SR-BiDi	CPAC-TR-100SR	CPAC-TR-100LR CPAC-TR-100LR-D	CPAC-TR-100CWDM4 CPAC-TR-100CWDM4-D	CPAC-TR-100SR-DM	CPAC-TR-100SWDM4 CPAC-TR-100SWDM4-D
							
Supported Models	MH0140/170	MH0175	MH0175	MH0140/170/175	MH0140/170/175	MH0140/175	MH0140/170/175
Form Factor	QSFP28	QSFP28	QSFP28	QSFP28	QSFP28	QSFP28	QSFP28
Protocol	100GBase-SR4	100GBASE-SR1.2	100GBase-SR4	100GBase-LR4	100GBASE-CWDM4	100GBase-SR4	100GBASE-SWDM4
Wavelength (nm)	840 to 860	855, 908	840 to 860	1295,1300, 1304,1309	1271,1291, 1311,1331	840 to 860	850,880, 910,940
Connector	MPO-12	LC	MPO-12	LC	LC	LC	LC
Distance (Max)	70m(OM3) 100m(OM4)	70m(OM3) 100m(OM4/5)	70m(OM3) 100m(OM4)	10km	2km	70m(OM3) 100m(OM4)	75m(OM3) 100m(OM4) 150m(OM5)
Supported Cable Type	50/125 µm Fiber(OM3) 50/125 µm Fiber(OM4)	Multi-Mode 50/125 µm Fiber(OM3/OM4/ OM5)	50/125 µm Fiber(OM3) 50/125 µm Fiber(OM4)	single mode 9/125 µm Fiber	single mode 9/125 µm Fiber	50/125 µm Fiber(OM3) 50/125 µm Fiber(OM4)	50/125 µm Fiber(OM3) 50/125 µm Fiber(OM4) 50/125 µm Fiber(OM5)
Input Level (Receive Power) dBm	+2.4dBm to -10.3dBm	+4.0dBm to -7.9dBm	+2.4dBm to -10.3dBm	+4.5dBm to -10.6dBm	+2.5dBm to -10dBm	+2.4dBm to -10.3dBm	+3.4dBm to -9.5dBm
Output Level (Transmit Power) dBm	+2.4dBm to -8.4dBm	+4.0dBm to -6.0dBm	+2.4dBm to -8.4dBm	+4.5dBm to -4.3dBm	+2.5dBm to -4dBm	+2.4dBm to -8.4dBm	-3dBm to -5.5dBm

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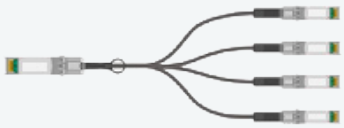
Direct Attached Cables (10G, 25G, 40G And 100G)

SKU	CPAC-DAC-10G-1M CPAC-DAC-10G-3M CPAC-DAC-10G-5M	CPAC-DAC-25G-1M CPAC-DAC-25G-3M CPAC-DAC-25G-5M	CPAC-DAC-40G-1M CPAC-DAC-40G-3M CPAC-DAC-40G-5M CPAC-DAC-40/10G-1M	CPAC-DAC-100G-1M-DM CPAC-DAC-100G-3M-DM CPAC-DAC-100G-5M-DM CPAC-DAC-100/25G-3M
Supported Models	MH0140	MH0140/175	MH0140/170/175	MH0140/170/175
Form Factor	SFP+	SFP28	QSFP+	QSFP28
Protocol	10BASE-CU	25GBASE-CR1	40BASE-CR4	100BASE-CR4
Distance (Max)	1m/3m	3m	1m/3m	1m/3m
Cable Type	30/30/24 AWG	30/28/26 AWG	30/30/28 AWG	30/26/26 AWG
Compatible	SFP+ MSA, SFF-8431, SFF-8432	SFP28 MSA, SFF-8402, SFF-8436	QSFP+ MSA, SFF-8436, SFF-8685	QSFP+ MSA, SFF-8436, SFF-8685
Operation Relative Humidity	10 to 90%	5 to 85%	5 to 85%	5 to 85%

See SecureKnowledge sk148192 for more information

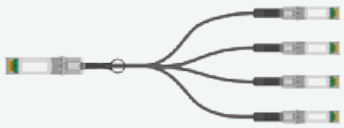
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Splitter Cables (MH0140, MH0175)

	From	Connecting Cable	To
CPAC-DAC-40/10G-1M / 3M 40GbE to four 10GbE interfaces DAC Splitter, 3m length	1x Maestro QSFP+	Copper	4x 10G SFP+
Composed of a QSFP+ transceiver at one end and four individual SFP+ transceivers at the other end. Additional transceivers ARE NOT needed.			

	From	Connecting Cable	To
CPAC-MPO-4xLC-MMF-OM3-3m **CPAC-MPO-4xLC-MMF-OM3-6m** MTP/MPO to 4 Duplex LC Breakout Cable, OM3, 3 and 6 meter lengths	1x Maestro QSFP28, QSFP+	Fiber	4x 10G SFP+, SFP28
Composed of an MTP/MPO male connector at one end and four individual Duplex LC connectors at the other end. • 40 GbE to 4x 10 GbE • 100 GbE to 4x 25GbE			

* It is recommended to use the CPAC-TR-40SR-QSFP-100m when using the splitters CPAC-MPO-4xLC-MMF-OM3-3m or CPAC-MPO-4xLC-MMF- OM3-6m

	From	Connecting Cable	To
CPAC-DAC-100/25G-3M 100GbE to four 25GbE interfaces DAC Splitter, 3m length.	1x Maestro QSFP28 transceiver not included	Fiber	4x Duplex LC Breakout Cable QSFP28 transceiver not included
Composed of a QSFP28 transceiver at one end and four individual SFP28 transceivers at the other end. Additional transceivers ARE NOT needed.			

MAESTRO HYPERSCALE ORCHESTRATORS ACCESSORIES	SKU
Fan replacement for Maestro Hyperscale Orchestrator 175	CPAC-FAN-MH0175
Fan replacement for Maestro Hyperscale Orchestrator 140	CPAC-FAN-MH0140
AC power supply unit replacement for MH0 140 and 175, with front to back airflow	CPAC-PSU-AC-MH0140/175
Rail kit for Maestro Hyperscale Orchestrator 140 and 170	CPAC-RAIL-MH0140/170

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