



Configuration/Features

Antivirus and Content Filter Capabilities	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
OOB Management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SSH	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SSL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SNMP	Yes	Yes (MIB II)	Yes (MIB II)	Yes	Yes (MIB III)	Yes (MIB III)	Yes (MIB III)	Yes (MIB II)	Yes (MIB II)	Yes (MIB II)	Yes (MIB III)
Performance Monitoring	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Disk Redundancy	No	No	No	No	Disk Mirroring	Hardware Raid 1	Disk Mirroring	Disk Mirroring	Disk Mirroring	No	No
Rack Mountable	Desktop	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ICSA	Check Point VPN-1 Pro and Check Point VPN-1 Express are ICSA certified by Check Point										In Progress
NEBS III	No	No	No	No	No	No	No	No	Yes	No	In Progress
FIPS 140-2	No	No	No	No	No	No	No	No	No	No	In Progress
CC/EAL-4 IPSO 3.5.1 with Check Point FP2	Yes, EAL certified	No	No	No	No	No	No	No	No	No	No
CC/EAL-4 IPSO 3.9 with Check Point R55p		Yes	Yes	No	No	No	No	Yes	Yes	Yes	No
CC/EAL-4 IPSO 3.9 with Check Point NGX R60		Yes	Yes	No	No	No	No	Yes	Yes	Yes	No
CC/EAL-4 + IPSO 4.2 with Check Point R65	No	No	No	No	No	No	No	No	No	No	In Progress
Network Processor-Based	No	No	No	No	No	No	No	No	No	Yes	No
Default RAM Memory Config	128 MB	512 MB RAM		1 GB RAM on Flash, 2 GB on HDD	1 GB RAM	1 GB RAM	2 GB RAM	1 GB RAM	1 GB RAM	2 GB RAM	4 GB RAM
Maximum Memory Config	32 MB Flash	512 MB RAM		4 GB RAM (currently supports max 2 GB)	2 GB RAM	2 GB RAM	8 GB RAM	2 GB RAM	2 GB RAM	2 GB RAM	8 GB RAM
Total Memory Slots	N/A	N/A		2	2	4	4	4	4	4	8
Hard disk (GB/Flash)	No	40 GB	512 MB Flash	40 GB HD or 1 GB Flash	40 GB HD or 1 GB Flash	40 GB HD or 1 GB Flash	40 GB HD or 4 GB Flash	40 GB HD or 1 GB Flash	40 GB HD or 1 GB Flash	1 GB Flash	40 GB HD or 4 GB Flash
Default Number of 10/100 Ethernet Ports	4 ports LAN, 1 WAN, 1 DMZ/ WAN2	4		0	0	0	0	4*	4*	0	0
Default Number of 10/100/1000 Ethernet Ports	0	0		6	4	4	4	0	0	4**	4
Maximum Number of 10/100 Ethernet Ports	4 LAN, 2 WAN	4		0	8 (not including integrated ports)	16	16	20	20	36	24
Maximum Number of 10/100/1000 Ethernet Ports	0	0		8	8	16	16	16	16	20	32 with Nokia ADP cards or 24 w/o ADP
Console	1	1		1	1	1	1 (RJ45)	1	1	1	1 (RJ45)
Aux Port	1	1		1	1	1	1	1	1	1	1 (USB) and 1 RJ45
Modem	Serial port	N/A		N/A	N/A	1	N/A	N/A	N/A	N/A	External
Number of Available Interface Slots	N/A	N/A		1 external facing PMC slot, 1 internal PMC slot	2 PMC slots	4 external facing PMC slots, 1 internal PMC slot	4 external facing PMC slots, 1 internal PMC slot	2 6U CPCI slots that support dual PMC carriers (total of 4 PMC slots), 1 internal PMC socket	2 6U CPCI slots that support dual PMC carriers (total of 4 PMC slots), 1 internal PMC socket	4 Nokia unique CPCI ADP slots plus one CPCI management slot	2 External Front Facing 6U carrier Slots, 2 External front facing PMC slots, 1 Internal PMC Slot

* Included 10/100 Ethernet interfaces intended for management. These interfaces are fully routable and can be used to pass traffic, but throughput will be limited relative to the standard I/O ports resident on the PMC Interface Cards.

** CPCI card intended for management



Nokia IP60



Nokia IP260



Nokia IP265



Nokia IP290



Nokia IP390



Nokia IP560



Nokia IP690



Nokia IP1220



Nokia IP1260



Nokia IP2255



Nokia IP2450

Optional Interfaces & Components

Two-port 1000BASE-LX, SX, CU Ethernet, SFP PMC Card	No	No	Yes (LX and SX)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
1 Port MMF Gigabit Ethernet	No	No	No	No	No	No	No	No	No	No
Two-port 1000BASE-T, Ethernet PMC Card	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes (1 Gbps only)	Yes
Four-port 1000BASE-T Ethernet PMC Card	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Two-port Copper Ethernet 10/100	No	No	No	No	No	No	Yes	Yes	No	No
Four-port 10/100BASE-T, Ethernet PMC Card	No	No	No	Yes	Yes	Yes	Yes	Yes	No	Yes
1 Port 10 Gigabit Ethernet	No	No	No	No	No	No	No	No	Yes	No
8 Port Copper 10/100	No	No	No	No	No	No	No	No	Yes	No
Single V.35 serial	No	No	No	No	No	No	No	Yes	No	No
Single X.21 serial	No	No	No	No	No	No	No	Yes	No	No
Dual V.35 serial	No	No	No	No	No	No	No	No	No	No
Dual X.21 serial	No	No	No	No	No	No	No	No	No	No
Single Port TI CSU/DSU	No	No	No	No	No	No	No	No	No	No
Single Port E1 CSU/DSU	No	No	No	No	No	No	No	No	No	No
1 Port S/T, ISDN, BRI	No	No	No	No	No	No	No	Yes	No	No
1 Port HSSI 45 Mbps	No	No	No	No	No	No	No	No	No	No
MMF ATM 155 Mbps OC-3	No	No	No	No	No	No	No	No	No	No
VPN Accelerator	Included	Included	Optional	Included	Included	Included	Optional	Included	Optional	Included or Optional
Redundant Power Supply	No	No	No	No	No	Yes	Optional	Installed, not optional	Installed, not optional	Yes
Hot-swappable Interface Cards (non Nokia ADP cards)	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Secondary (Mirrored) Hard Disk Drive	No	No	No	No	No	Yes, disk-based systems only	Yes, disk-based systems only	Yes, disk-based systems only	N/A	No
Up to two 40 GB HDD with Hardware RAID I	No	No	No	No	No	Yes	No	No	No	Yes

Application Support

Check Point	Check Point VPN-1 Embedded NG	Check Point VPN-1 Pro Check Point VPN-1 Express Check Point VPN-1 Power		Check Point VPN-1 UTM	Check Point VPN-1 Pro Check Point VPN-1 Express Check Point VPN-1 Power	Check Point VPN-1 Pro Check Point VPN-1 Power	Check Point VPN-1 Pro Check Point VPN-1 UTM	Check Point VPN-1 Pro Check Point VPN-1 Power	Check Point VPN-1 Pro Check Point VPN-1 Power	Check Point VPN-1 Pro Check Point VPN-1 Power	Check Point VPN-1 NGX R65 UTM & Power and Check Point VPN-1 NGX R62 UTM
Nokia Horizon Manager	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Nokia Network Voyager	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Authentication & Authorization	RADIUS client for user authentication and authorization					RADIUS	RADIUS				Yes
Nokia Multiple Domain Security Support	No	No		No	Yes	Yes	No	Yes	Yes	Yes	



Nokia IP60



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Nokia IP290



Nokia IP390



Nokia IP560



Nokia IP690



Nokia IP1220



Nokia IP1260



Nokia IP2255



Nokia IP2450

Characteristics of the OS

Nokia IPSO Operating System Shipping Now	No	Nokia IPSO 4.1		Nokia IPSO 4.2	Nokia IPSO 4.1	Nokia IPSO 4.1	Nokia IPSO 4.2	Nokia IPSO 4.1	Nokia IPSO 4.1	Nokia IPSO 4.1	Nokia IPSO 4.2
Nokia IPSO Version Platforms Originally Shipped With	No	Nokia IPSO 3.8.1		Nokia IPSO 4.2	Nokia IPSO 4.1	Nokia IPSO 4.0.1	Nokia IPSO 4.2	Nokia IPSO 3.8	Nokia IPSO 3.7	Nokia IPSO 3.8	Nokia IPSO 4.2
SNMP, SNMPv2, and SNMPv3 Management	SNMP v2	SNMP REC 1157, SNMPv2, and SNMPv3		SNMP REC 1157, SNMPv2, and SNMPv3	SNMP REC 1157, SNMPv2, and SNMPv3	SNMP REC 1157, SNMPv2, and SNMPv3	SNMP REC 1157, SNMPv2, and SNMPv3	SNMP REC 1157, SNMPv2, and SNMPv3	SNMP REC 1157, SNMPv2, and SNMPv3	SNMP REC 1157, SNMPv2, and SNMPv3	SNMP REC1157, SNMPv2, and SNMPv3
Software Acceleration	N/A	SecureXL	SecureXL	SecureXL	SecureXL	SecureXL	SecureXL	SecureXL	SecureXL	SecureXL	SecureXL
VRRP	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP Clustering	No	Yes		Yes	Yes	Yes	Yes	Yes (IPSO 3.8)	Yes (IPSO 3.7+)	Yes (IPSO 4.0)	Yes
IPSec VPN	Site-to-site and Remote Access	Site-to-site and Remote Access		Site-to-site and Remote Access	Site-to-site and Remote Access	Site-to-site and Remote Access	Site-to-site and Remote Access	Site-to-site and Remote Access	Site-to-site and Remote Access	Site-to-site and Remote Access	Site to Site and Remote Access
IPv6 Support		Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Key Management	IKE	IKE		IKE	IKE	IKE	IKE	IKE	IKE	IKE	IKE

Optional Routing Protocols

Support IGRP	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Support BGP4	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Performance

Maximum Firewall-1 Throughput	80 Mbps (8, 16, 32 users) or 150 Mbps (unlimited users)	248 Mbps	227 Mbps	1.5 Gbps	3 Gbps	6 Gbps	7 Gbps	2.4 Gbps	4 Gbps	8.9 Gbps	9-20 Gbps (projected)
VPN-1 Throughput (3DES/SHA-1)	20 Mbps (8, 16, 32 users) or 30 Mbps (unlimited users)	112 Mbps		1 Gbps	500 Mbps	1.78 Gbps	1.78 Gbps	1,194 Mbps	1,497 Mbps	2,300 Mbps	2 Gbps
VPN-1 Throughput (AES256/SHA-1)	N/A	113 Mbps		1 Gbps	500 Mbps	1.78 Gbps	1.78 Gbps	1,217 Mbps	1,550 Mbps	130 Mbps	1.6-2.5 Gbps (projected)
Firewall Sessions Per Second	8,000**	5,581**	4,779**	35,000	36,000	36,000	43,000	30,000	35,000	35,000	481000

Power Requirements

AC Input Voltage	100-120 V/ 200-240 VAC	100-120 V/200-240 VAC		100-120 V/ 200-240 VAC	100/120/ 200-240 VAC	100-120 V/ 200-240 VAC	100-120 V/ 200-240 VAC	100-120 V/ 200-240 VAC	100-120 V/ 200-240 VAC	100-120 V/ 200-240 VAC	100-120 V/ 200-240 VAC
DC Power Supply	No	No		No	No	No	No	Yes	Yes	Yes	Yes
Frequency	50/60 Hz	50/60 Hz		50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
AC Input Current	1.0 A	1.8 A		2.0 A	3.0 A	3.0 A/1.5 A	4.0 A/2.0 A	3.0/1.5 A	3.0/1.5 A	3.0/1.5 A	8.5A/4.0A
Volts (US)	12	110		110	120	110	110	100	100	100	110
Amps (US)	1.5	0.5		0.5	1.8	3	4	3.5	3.5	3.5	3
Volts (Europe)		220		220	220	220	240	240	240	240	220
Amps (Europe)		0.25		.25	0.85	1.5	2	1.5	1.5	1.5	1.5
Peak Watts (US)		55		55	162	330	330	350	350	350	330
Peak Watts (Europe)		55		55	127	330	330	360	360	360	330
Sustained Watts		52.1		52.1	150	225	225	328.6	328.6	328.6	225

* Maximum possible throughput achieved under ideal testing circumstances.

** Firewall Connections per Second



Operating Environment

Operating Temperature		5°C to 40°C	5°C to 40°C	-5°C to +45°C	0°C to 40°C	-5°C to +45°C	5°C to 40°C	5°C to 40°C	5°C to 40°C	0°C to 40°C
Operating Humidity		10% - 90%	10% - 90%	10% - 90%	10% - 90%	10% - 95%	10% - 90%	10% - 90%	10% - 90%	10% - 90%
Peak BTU/Hr		187.7	187.7	553	1127	1127	1194.6	1194.6	9010.3	2867
Max Sustained BTU/Hr		177.8	177.8	512	768	768	1121.4	1121.4	3276.5	2389.1
Physical										
Height (in/cm)	1.2 in/3.0 cm	1.60 in/4.06 cm	1.7 in/4.03 cm	1.75 in/4.5 cm	1.75 in/4.5 cm	1.71 in/4.3 cm	3.46 in/8.79 cm	3.46 in/8.79 cm	5.21 in/13.2 cm	3.5 in/8.6 cm
Depth (in/cm)	8 in/20.3 cm	15.95 in/40.51 cm	19.5 in/4.3 cm	17 in/43.2 cm	24.7 in/62.7 cm	24.89 in/63.2 cm	21.15 in/53.72 cm	21.15 in/53.72 cm	24.45 in/62 cm	24.89 in/63.2 cm
Width (in/cm)	4.8 in/12.2 cm	8.15 in/20.70 cm	8.5 in/21.7 cm	17 in/43.2 cm	17 in/44 cm	17 in/44 cm	17 in/44 cm	17 in/44 cm	17 in/44 cm	17 in/43.18 cm
Weight	1.8 lbs/0.82 kg	9.1 lbs/4.2 kg	12.1 lbs/5.5 kg	18 lbs/10.9 kg	26.4 lbs / 12 kg	27.3 lbs/12.4 kg	36 lbs/16 kg	36 lbs/16 kg	47.5 lbs/21.6 kg	52 lbs w/o accessories

For Nokia IP200 Series in a Two-Unit Rack Mount

Rackable		1 RU 19"	1 RU 19"							
Height (in/cm)		1.71 in/4.34 cm	1.71 in/4.34 cm							
Depth (in/cm)		16 in/40.64 cm	16 in/40.64 cm							
Width (in/cm)		17.00 in/43.18 cm	17 in/43.18 cm							
Weight		26.4 lbs/12.0 Kg	26.4 lbs/12.0 kg							

Service

On Site	Nokia platforms have a selection of either On Site and/or Advance Replacement support available
Advance Replacement (See the monthly Nokia price list for details)	

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