



Nokia IP Security Platforms Technical Specifications Guide

Nokia Internet Communications Products

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FOR EXTERNAL USE.

Product										
Positioning										
	ROBO, SMB & SME Tele 8, Satellite 16, Satellite 32, Satellite Unlimited	Medium businesses and corporate satellite locations	Small Enterprise, corporate branch offices	Small to medium enterprise	High performance enterprise class system	Mid-range service provider class system	Mid range large enterprise & service provider class system	Mid range large enterprise & service provider class system	High end service provider class system	Very high end service provider class system
	Work extender, telecommuter, small office FW or VPN and Small to Medium Business	Satellite office scalable clustered VPN. Also runs FW or IDS.	Small Enterprise, branch office system with excellent VPN performance.	Flexible enterprise class system with IDS support.	Flexible high-end enterprise class system with 100 Ethernet.	Our newest mid-range Service Provider class system. The best value for high - end IDS systems.	Large Enterprise & Service Provider class system	Large Enterprise & Service Provider class system	Top-of-the-line Service Provider, Large Enterprise Data Center system	Highest Performing Service Provider, Large Enterprise Data Center system
Users Licenses	8, 16, 32, U	25,50,100,250,500,U	25,50,100,250,500,U	25,50,100,250,500,U	25,50,100,250,500,U	25,50,100,250,500,U	25,50,100,250,500,U	25,50,100,250,500,U	25,50,100,250,500,U	25,50,100,250,500,U
Maximum Number of Policies	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Embedded Device (Diskless)	Yes	No	No	No	No	No	No	No	No	Yes
Remote Management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Provider-1 Manageable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Centralized Service Management	Nokia Horizon Manager, SMP	Nokia Horizon Manager	Nokia Horizon Manager	Nokia Horizon Manager	Nokia Horizon Manager	Nokia Horizon Manager	Nokia Horizon Manager	Nokia Horizon Manager	Nokia Horizon Manager	Nokia Horizon Manager
Local Management	Yes	Nokia Network Voyager	Nokia Network Voyager	Nokia Network Voyager	Nokia Network Voyager	Nokia Network Voyager	Nokia Network Voyager	Nokia Network Voyager	Nokia Network Voyager	Nokia Network Voyager
ICSA Certified	Future	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hardware VPN Accelerator	Yes	Yes	Yes-on MB	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Disk Mirroring (IPS0 3.6 & up)	N/A	No	No	No	Yes	Yes	Yes	Yes	Yes	Diskless
Rack Mountable	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NEBS III	No	No	No	No	No	Yes	Yes	In-progress	In-progress	In-progress
FIPS 140-2	No	No	Yes	Yes	No	No	No	In-progress	In-progress	In-progress



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FOR EXTERNAL USE.

Product										
Branch office system with direct WAN connectivity.										
Processor	Brevis MSP 2000 150 MHz	National GX1 300 MHz	Pentium III 700MHz	Pentium III 866MHz	Pentium III 700MHz	Pentium III 1 GHz	Pentium III 1 GHz	Pentium IV 2.2 GHz	Pentium IV 2.8 GHz	Pentium IV 2.8 GHz
Default memory config	16 MB Flash, 64 MB SDRAM	256 MB RAM	256 MB RAM	256 MB RAM	256 MB RAM	512 MB RAM	1024 MB RAM	512MB RAM	1 GB RAM	2 GB RAM
Maximum memory config	n/a	n/a	512 MB RAM	1024 MB RAM	1024 MB RAM	1024 MB RAM	2 GB	2 GB	2 GB	4 GB
Total memory slots	n/a	n/a	2	2	4	4	4	4	4	4
Hard disk (GB)	n/a	20	20	20	20	20	20	40	40	Diskless
Default Number of Ethernet Ports	1 external, 1 internal, 1 DMZ	3	4	4	4	4	4	4	4	4
Maximum Number of Ethernet Ports	3	3	10	10	16	20	20	20	20	36
Console	1	1	1	1	1	1	1	1	1	1
Aux Port	1	1	1	1	1	1	1	1	1	1
Modem	Serial Modem	n/a	PCMCIA modem	PCMCIA modem	n/a	n/a	n/a	n/a	n/a	n/a
Number of available interface slots	n/a	n/a	2 PMC Slots	2 PMC Slots, 1 Internal PMC	3 CPCI, 2 Type II PCMCIA, 1 Internal PMC	4 CPCI, 1 Internal PMC socket	4 CPCI, 1 Internal PMC socket	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	2 6U CPCI slots that support Dual PMC Carriers (Total of 4 PMC slots), 1 Internal PMC socket
Optional Interfaces										
Dual MMF Gigabit Ethernet	No	No	No	Yes (PMC)	Yes (CPCI)	Yes (CPCI)	Yes (CPCI)	Yes	Yes	Yes
Single MMF Gigabit Ethernet	No	No	No	No	Yes (CPCI)	Yes (CPCI)	Yes (CPCI)	No	No	No
Dual Copper 1000 Ethernet	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Dual Ethernet 10/100	No	No	Yes (PMC)	Yes (PMC)	No	No	No	Yes	Yes	Yes
Quad Ethernet 10/100	No	No	Yes (PMC), only 1 per	Yes (PMC), only 1 per	Yes (CPCI)	Yes (CPCI)	Yes (CPCI)	Yes	Yes	Yes
Octal 10/100	No	No	No	No	No	No	No	No	No	Yes
Single V.35 serial	No	No	Yes (PMC)	Yes (PMC)	No	No	No	No	Yes	No
Single X.21 serial	No	No	Yes (PMC)	Yes (PMC)	No	No	No	No	Yes	No
Dual V.35 serial	No	No	No	No	Yes (CPCI)	Yes (CPCI)	Yes (CPCI)	No	No	No
Dual X.21 serial	No	No	No	No	Yes (CPCI)	Yes (CPCI)	Yes (CPCI)	No	No	No
Single Port TI CSU/DSU	No	No	Yes (PMC)	Yes (PMC)	Yes (CPCI)	Yes (CPCI)	Yes (CPCI)	No	No	No
Single Port E1 CSU/DSU	No	No	Yes (PMC)	Yes (PMC)	Yes (CPCI)	Yes (CPCI)	Yes (CPCI)	No	No	No
1 Port S/T, ISDN, BRI	No	No	Yes (PMC)	Yes (PMC)	Yes (CPCI)	No	No	No	Yes	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	Yes (CPCI)	Yes (CPCI)	Yes (CPCI)	No	No	No
VPN Accelerator	No	Yes	No	Yes (PMC)	Yes (PMC)	Yes (PMC)	Yes (PMC)	Yes (PMC)	Yes (PMC)	Yes (PMC)
Redundant Power Supply	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Hot swappable Interface cards	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes



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FOR EXTERNAL USE

Product										
Application Support										
Check Point™	Check Point VPN-1 Embedded NG	Check Point VPN-1 / FW-1, Express & Full License	Check Point VPN-1 / FW-1 NG Only	Check Point VPN-1 / FW-1 NG Only	Check Point VPN-1 / FW-1	Check Point VPN-1 / FW-1	Check Point VPN-1 / FW-1	Check Point VPN-1 / FW-1	Check Point VPN-1 / FW-1	Check Point VPN-1 / FW-1
Nokia Horizon Manager v1.3	Nokia Horizon Manager v1.3.1 & up	Nokia Horizong manager								
Nokia Network Voyager (packaged with Nokia IPSO)	Nokia Management GUI and documentation	Nokia Voyager and Network Voyager								
Authentication & Authorization	RADIUS client for user authentication and authorization									
Clustering	No	VPN Only	Yes (IPSO 3.7+)	Yes (IPSO 3.7+)	Yes (IPSO 3.6+)	Yes (IPSO 3.6+)	Yes (IPSO 3.6+)	Yes (IPSO 3.8)	Yes (IPSO 3.7+)	VRRP Only
Nokia Secure Access System (NSAS) 1.02	No	Yes	Yes	Yes	No	No	No	Yes	Yes	No
Nokia Secure Developers Alliance (NSDA)	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Characteristics of the OS										
IPSO 3.8 Shipping Now	Nokia IPSO-RX	Nokia IPSO 3.8	Nokia IPSO 3.8	Nokia IPSO 3.8	Nokia IPSO 3.8	Nokia IPSO 3.8	Nokia IPSO 3.8	Nokia IPSO 3.8	Nokia IPSO 3.8	Nokia IPSO 3.8
SNMP, SNMPv2, and SNMPv3 management	SNMP v2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Firewall Flows	n/a	Across all IPSO IP platofoms for IPSO support of Check Point SecureXL 2.0 delivering firewall and VPN acceleration								
VRRP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IPSec	Tele 8 - Client Session Mode Satellite 16 - Site-to-Site Satellite 32 - Site-to-Site Satellite Unlimited - Site-to-Site									
Optional Routing Protocols										
Support IGRP	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Support BGP4	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes



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Product										
Performance										
Maximum FW-1 Throughput	80 Mbps	117Mbps	350 Mbps	1.5 Gbps	682 Mbps	1.3 Gbps	2Gbps	2.4Gbps	4.2Gbps	7.5Gbps
VPN-1 Throughput (3DES/SHA-1)	18 Mbps	54Mbps	130 Mbps	130 Mbps	18 Mbps	22Mbps	n/a	n/a	n/a	n/a
VPN-1 w/ accelerator Throughput (3DES/SHA-1)	n/a	n/a	n/a	166 Mbps	132 Mbps	172Mbps	174Mbps	750Mbps	950Mbps	1.8Gbps
Recommended Max # of Nodes (Firewall)	Tele 8 - 8 Satellite 16 - 16 Satellite 32 - 32 Satellite Unlimited - Unlimited	247,000	250,000	461,000	501,889	1,070,934	1,070,926	1,172,000	1,172,000	1,172,000
Estimated Max # of VPN tunnels - based on stated memory and minimal tunnel size for connection - maximum usable tunnels will be less depending on tunnel size allocated	Tele 8 - 8 Satellite 16 - 10 Satellite 32 - 10 Satellite Unlimited - 10	3000 (256MB)	6000 (256MB)	12500 (512MB)	12500 (512MB)	25000 (1GB)	25000 (1GB)	25,000 (1GB)	25,000 (1GB)	50,000
Recommended Usable Tunnels - based on adequate tunnel size that provides acceptable bandwidth	10	25	500	1000	1000	2000	2000	5,000	6,000	10,000
Firewall Connections Per Second (CPS)	na	2,156	13,900	14,999	14,995	15,734	15,896	20,000	31,965	47,000
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 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	100-120 V/ 200-240 VAC
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	0.9 A	1.5/1.75 A	1.5/1.75 A	3.0/1.5 A	3.0/1.5 A	3.0/1.5 A	3.0/1.5 A	3.0/1.5 A	3.0/1.5 A
Operating Temperature	5°C - 40° C	5°C - 40° C	5°C - 40° C	5°C - 40° C	5°C - 45° C	5°C - 40° C	5°C - 40° C	5°C - 40° C	5°C - 40° C	5°C - 40° C
Physical										
Rackable	Desktop	Wall or Desktop	1 RU 19"	1 RU 19"	2 RU 19"	3 RU 19"	3 RU 19"	2RU 19"	2RU 19"	3RU 19"
Height (in/cm)	1.8 in / 4.3 cm	2.10 in/5.33 cm	1.75 in/4.5 cm	1.75 in/4.5 cm	3.5 in/9.0 cm	5.1 in/13 cm	5.1 in/13 cm	3.46 in/8.79 cm	3.46 in/8.79 cm	5.21 in/13.2 cm
Depth (in/cm)	5.8 in / 14.5 cm	8.34 in/21.18 cm	16.1 in/41.0 cm	16.1 in/41.0 cm	16.0 in/41.0 cm	21 in/53 cm	21 in/53 cm	21.15 in/53.72 cm	21.15 in/53.72 cm	24.45 in/62 cm
Width (in/cm)	7.2 in / 18.3 cm	9.35 in/23.75 cm	17.0 in/44 cm	17.0 in/44 cm	17.0 in/44.0 cm	17 in/44 cm	17 in/44 cm	17 in/44 cm	17 in/44 cm	17 in/44 cm
Weight	1.5 lb / (0.7 kg)	4.5lbs / 2kg	17lbs/7.7kg	17lbs/7.7kg	33.0 lbs / 15.0 kg	36 lbs / 16 kg	36 lbs / 16 kg	36 lbs / 16 kg	36 lbs / 16 kg	47.5 lbs / 21.6 kg
MTBF Mean Time Between Failure										
MTBF @ 25c in hours	135,635	38,615	118,661	118,661	58,564	33,780	33,780	40,752	40,752	64,745
Service										
On Site	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Advance Replacement (See the monthly Nokia price list for details)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Homologation										
Homologation List (Check your Nokia monthly price list for the updated country list.)										