

Nokia IP Security Solutions

Nokia IP1220



Nokia for Business



The robust and cost-effective Nokia IP1220 Security Platform supports the sophisticated traffic requirements present in large enterprises and service provider networks.

Providing robust performance with one of the industry's leading dollar-per-megabit throughput, Nokia IP1220 is a purpose-built IP security platform for running Check Point™ VPN-1 Pro network security application. This platform runs the latest version of Nokia IPSO™ secure operating system, which, in combination with Nokia IP1220, delivers leading technology for companies that need resilient, long-term, high performance perimeter and internal security solutions. From inception, Nokia IP1220 was designed for growth to continually meet increasing network traffic needs. To ensure top performance and network uptime, Nokia IP1220 delivers redundant capabilities supported by Nokia IPSO, such as VRRP and Nokia IP Clustering, as well as built-in hardware redundancy features. The redundant hardware features include hot swap interface cards, optional load sharing power supply and fan, and optional mirrored hot swap-capable hard disks.

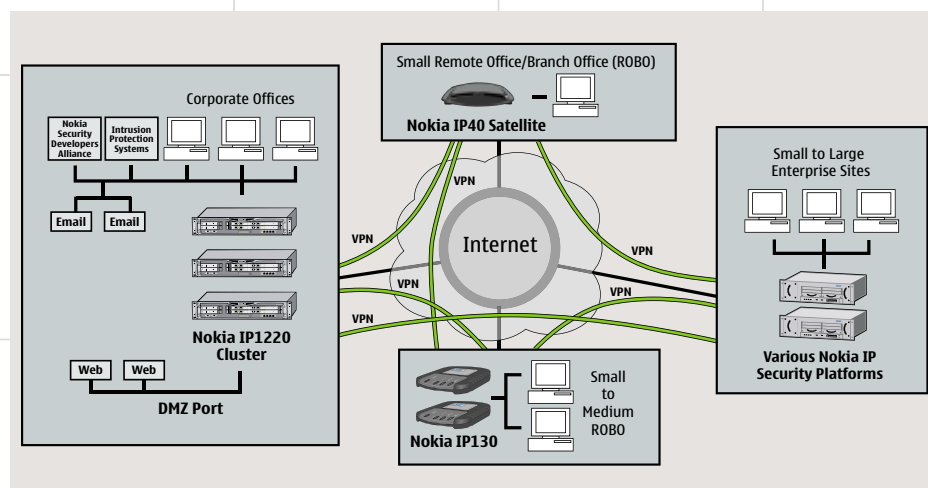
Nokia IP1220, like most Nokia Firewall/VPN Appliances, offers the option of either disk- or flash-based storage configurations. Additionally, Nokia IP1220 can be configured with hybrid (flash and compact disk) local storage. The Nokia IP1220 hybrid configuration uses flash storage for Nokia IPSO and the Check Point enforcement module, and local disk for management and logging.

This system has excellent price/performance and can be used in diverse environments to protect large and enterprise frameworks needing a Gigabit throughput-capable perimeter security solution, as well as organizations needing to secure several 10/100 Ethernet internal network segments or a few Gigabit Ethernet network segments. These platforms are also ideal for companies that require robust, large enterprise performance combined with ease of management and high reliability.

Nokia continues to deliver industry-leading, best-of-breed solutions to meet stringent security needs. By combining excellent price, performance, and management to deliver the industry's best power and reliability, Nokia IP1220 supports financial and medical institutions, as well as data center needs of service providers and large enterprise networks—all at a low Total Cost of Ownership.


The value of Nokia IP1220 is further enhanced with a high-speed encryption accelerator card and up to 2GB of RAM. With its expansion capacity, it can service a multitude of network segments for a large and growing network infrastructure with up to twenty 10/100 Ethernet or eight 1000 Gigabit Ethernet connections in a variety of customer-selected configurations. Additionally, Nokia IP1220 can be managed by web-based Nokia Network Voyager interface, a command line interface for single device management, or Nokia Horizon Manager for multi-device management. Nokia IPSO brings added value to Nokia IP1220 with support for a wide array of protocols, such as RADIUS client server, TACACS+ Client, and others.

Best of all, security, performance, and reliability are all backed by world-class Nokia First Call—Final Resolution global support and service.



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□ Technical Specifications

<p>Internet Protocols</p> <ul style="list-style-type: none"> IP RFC 791 ICMP RFC 792 ARP RFC 826 ICMP Router Discovery (server) RFC 1256 CIDR RFC 1519 Static Routes RIP RFC 1058 RIP Version 2 (with authentication) RFC 1723 OSPF RFC 2328 DVMRP (multicast) RFC 1075 IGMP (multicast) RFC 2236 PIM-DM (multicast), PIM-SM Multicast Tunnels IGRP (optional) Cisco BGP4 (optional) RFC 1771 IPv6 Core RFCs Requirements for IPv4 Routers RFC 1812 Differentiated Services (EF) RFC 2598 Bootp/DHCP Relay RFC 2131 Route Aggregation and Redistribution Unnumbered Interfaces <p>LAN Support</p> <ul style="list-style-type: none"> 10/100 Mbps Ethernet 1000 Base Multimode Fiber (MMF) LC Connector 1000 BaseT (10/100/1000 Mbps) <p>WAN Support</p> <ul style="list-style-type: none"> PPP RFC 1661, 1662 Frame Relay FRF.1, RFC 1490 HDLC Cisco <p>Performance</p> <ul style="list-style-type: none"> FW - large packets 2.4 Gbps VPN - large packets 1.2 Gbps 3DES, AES256 39,000 FW Connections Per Second <p>Management</p> <ul style="list-style-type: none"> SNMP RFC 1157, SNMPv2c, SNMPv3 Telnet RFC 854 FTP RFC 959 SSHv2 (secure Telnet and FTP) HTTP Server RFC 2068 SSL/TLS RFC 2246 Command Line Utilities Supported in Nokia Horizon Manager <p>Application Acceleration</p> <ul style="list-style-type: none"> VPN <p>Environment</p> <ul style="list-style-type: none"> Temperature: 41°F to 104°F / 5°C to 40°C Humidity: 10% - 90% (non-condensing) Altitude: 10,000 ft <p>High Availability</p> <ul style="list-style-type: none"> VRRP RFC 2338 FireWall-1 State Sync Patented Nokia IP Clustering Disk Mirroring 	<p>Security (continued from previous column)</p> <ul style="list-style-type: none"> Authentication (RIPv2) RFC 1723 Centralized Authentication Native IPsec (for non-firewall applications) DNS Client, NTP Client and Server RADIUS Client, TACACS+ Client <p>System Indicators</p> <ul style="list-style-type: none"> Integrated 10/100 Ethernet port status Power status on system Failure status on system Operational, activity, hard drive hot swap status Power status on PMC carrier card Port status on network interface cards <p>Supported Standards</p> <ul style="list-style-type: none"> IPsec (RFCs 2401-2411, 2451) GRE (RFCs 1701 and 1702) Generic Routing Encapsulation Designed to meet NEBS III, and FIPS 140-2 (kit required) <p>Safety</p> <ul style="list-style-type: none"> UL1950, CAN/CSA 22.2, No. 950-M95, (CE Mark) EN60950:1992, A1, A2:1993, A3:1995, A4:1997, A11:1998 with Japanese National Deviations Emission Compliance <p>Emission Compliance</p> <ul style="list-style-type: none"> FCC Part 15, Subpart B, Class A, EN50024, EN55022A: 1998, CISPR 22 Class A 1985, EN61000-3-2, EN61000-3-3 <p>Immunity</p> <ul style="list-style-type: none"> EN55024: 1998 <p>Standard</p> <ul style="list-style-type: none"> 1GB system RAM, expandable to 2GB 4 integrated 10/100 Mbps management ports 2 6U CPCI slots supporting up to 4 PMC Interface Cards 2 Type II PCMCIA slots <p>Optional PMC Network Interface Card</p> <ul style="list-style-type: none"> 2-Port 10/100 Mbps Ethernet 2-Port 1000BaseF Multimode Fiber (MMF) 2-Port 1000 BaseT (10/100/1000 Mbps) 4-Port 10/100 Mbps Ethernet Dual port Gigabit Ethernet, Cu <p>Dimensions</p> <ul style="list-style-type: none"> Height: 3.46 in / 8.79 cm – 2RU Width: 19 in / 48 cm – with rack mounting ears Depth: 21.15 in / 53.72 cm Weight: 30 lbs / 13.6 kg Front access for maintenance
<p>Security</p> <ul style="list-style-type: none"> Secure Administrative Access Read/Write and Read-Only Access Modes SSH (secure Telnet and FTP) SSL/TLS (secure HTTP) RFC 2246 S/Key (one-time password) RFC-1760 Access Control Lists Traffic Management MD5 Routing <p>(continued next column)</p>	<p>Power Requirements</p> <ul style="list-style-type: none"> AC Input Voltage 100-120V/200-240VAC Frequency 50/60Hz AC Input Current 3.0/1.5A <p style="text-align: right;">Secured by  Check Point</p>

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