

Nokia IP Security Solutions

Nokia IP1260

Nokia IP1260 supports high performance traffic levels prevalent in complex network infrastructures deployed by large enterprise, service providers, and data centers.

Nokia IP1260 incorporates leading technology for a resilient long-term perimeter and internal security solution with performance for high traffic sites. It combines market-leading firewall/VPN software with the Nokia IPSO™ secure operating system on a purpose-built and designed hardware platform. From inception, Nokia IP1260 was designed for growth to continually meet increasing network traffic needs. To ensure maximum performance and network uptime, Nokia IP1260 provides redundant features in Nokia IPSO, such as VRRP and Nokia IP Clustering, as well as built-in hardware redundancy capabilities. The redundant hardware features include hot swap interface cards, load sharing power supplies and fans, and mirrored hot swap hard disks.

Nokia IP1260, like most Nokia Firewall/VPN Appliances, offers the option of either disk- or flash-based storage configurations. Additionally, Nokia IP1260 can be configured with hybrid (flash and compact disk) local storage. The Nokia IP1260 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.

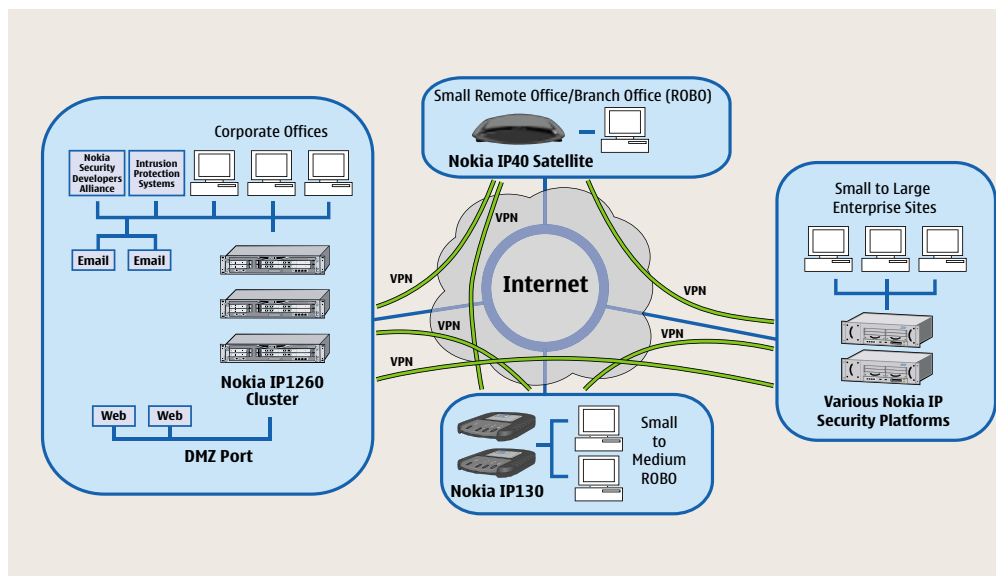
Nokia continues to deliver industry-leading solutions to meet stringent customer security needs with best-of-breed Check Point Software Technologies VPN-1 Pro network security application. Nokia IP1260 combines excellent price/performance with superb management to deliver the industry's best power, redundancy, and overall capabilities to effectively support large financial institutions, high-end service providers, large enterprise, and carrier and data center networks—all at a low Total Cost of Ownership.

The value of Nokia IP1260 is further enhanced with a high-speed encryption accelerator card, dual power supply, mirrored hard disks, and 1GB of memory included in the base system so it is delivered redundant-ready. Nokia IP1260 has excellent expansion capacity to connect a multitude of network segments for a large and



growing network infrastructure. Additionally, it 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 IP1260 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.



Technical Specifications

Internet Protocols <ul style="list-style-type: none"> • ARP • BGP-4 [software option] • Bootp/DHCP Relay • CIDR • COPS • Diff Serv (Expedited Forwarding) • DVMPRP • GRE • ICMP • ICMP Router Discovery • IGMP • IGRP [software option] • IP (RFC 791) • IPv6 Core Protocols • OSPF • PIM-DM • PIM-SM • Multicast Tunnels • RIP • RIPv2 with MD5 Authentication • Route Aggregation • Route Redistribution • Static Routes • UDP • Unnumbered Interfaces 	
LAN Support <ul style="list-style-type: none"> • 10/100 Mbps Ethernet • 10/100/1000 Mbps Ethernet • 1000 Mbps Ethernet MMF • Transparent (Bridging) Mode • VLAN Tagging 	
WAN Support <ul style="list-style-type: none"> • Frame Relay • HDLC (Cisco-compatible) • HSSI [interface card option] • ISDN [interface card option] • PPP • T1/E1 [interface card option] • V.35 [interface card option] • X.21 [interface card option] 	
Performance <ul style="list-style-type: none"> • Firewall - large packets 4.0 Gbps • VPN - large packets 1.5 Gbps 3DES, AES - 59,000 FW Connections Per Second 	
Management <ul style="list-style-type: none"> • Nokia Network Voyager (HTTP server) • Command Line Interface (CLI) • Command Line Utilities • DHCP • FTP • SNMPv1/v2c/v3 • SSH (for CLI) • SSL/TLS (for Nokia Network Voyager) • Telnet (for CLI) • Supported in Nokia Horizon Manager 	
Application Acceleration <ul style="list-style-type: none"> • VPN Acceleration • Firewall Flows 	
Environment <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. 	
High Availability <ul style="list-style-type: none"> • Hot Swap • Disk Mirroring • Nokia IP Clustering • VRRP • Check Point VPN-1/FireWall-1 State Sync 	
Security <ul style="list-style-type: none"> • Access Control Lists • Centralized Authentication • Cryptographic Acceleration • DNS Client • IPSec • MD5 Routing Authentication (RIPv2) • NTP Client and Server • RADIUS Client • Read/Write and Read-Only Administrative Access • S/Key (one-time password) • SSH • SSL/TLS • TACACS+ Client • Traffic Management 	
System Indicators <ul style="list-style-type: none"> • Power and Fault • Port Status • Operational, activity, hard drive hot swap status • Power PMC carrier card 	
Certifications <ul style="list-style-type: none"> • NEBS III • EAL4 Common Criteria (ISO/IEC 15408) 	
Safety <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 <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 	
Immunity <ul style="list-style-type: none"> • EN55024: 1998 	
Standard <ul style="list-style-type: none"> • 4 integrated 10/100 management ports • 2 6U PCI slots for 4 PMC NICs • 2 Type II PCMCIA slots • Nokia Encryption Accelerator IV • 1GB system RAM, expandable to 2GB 	
Optional PMC Network Interface Card <ul style="list-style-type: none"> • Dual port 10/100 Ethernet • Dual port Multimode Fiber (MMF) Gigabit Ethernet • Single port V.35, Single port X.21 • Single port ISDN BRI S/T • T1 single port • E1 single port • Dual port Gigabit Ethernet, Cu 	
Dimensions <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: 36 lbs / 16 kg • Front access for maintenance 	
Power Requirements <ul style="list-style-type: none"> • AC Input Voltage 100-120V/200-240VAC • Frequency 50/60Hz • AC Input Current 3.0/1.5A • DC Input Voltage 48VDC 	

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