

Nokia IP Security Solutions

Nokia IP560

Nokia for
Business



Nokia IP560 Security Platform is a highly versatile security appliance running Check Point VPN-1. It is designed for growing medium businesses, large businesses, or enterprises to protect either perimeter or multiple internal network segments.

Nokia IP560 Security Platform is a flash-based 1RU security appliance providing multigigabit performance and up to 16 Gigabit Ethernet ports for the Check Point VPN-1 Pro suite of applications. Nokia IP560 running Check Point VPN-1 Pro provides up to:

- 6 Gbps of firewall throughput
- 58,000 firewall connections per second
- 1.9 Gbps of AES256 VPN throughput¹

Nokia IP560 is ideal for large businesses, enterprises, and service providers that want a rack-dense, high-throughput appliance, as well as medium businesses that want an affordable appliance that will grow as their business grows.

Like all Nokia Firewall/VPN Appliances, Nokia IP560 is a best-of-breed, trusted security appliance purpose-built to run the Check Point VPN-1 firewall application, and it is optimized to provide:

- Consistent in-line reliability
- Ease of management
- Simple acquisition and implementation

Consistent Inline Reliability

Nokia Firewall/VPN appliances are purpose-built to protect corporate applications and data while running inline within the world's most demanding network environments, and architected specifically for the demands of Check Point VPN-1.

Nokia IPSO™ operating system natively supports key networking needs such as dynamic and multicast routing, IPv6, VLANs, and link aggregation, making integration into complex networks transparent.

For optimal reliability, Nokia IP560 is flash-based, with an optional hard drive to support local logging. And it includes VRRP and IP Clustering for high availability.

Ease of Management

To increase administrator productivity, Nokia Firewall/VPN appliances make executing sophisticated security simple. The acclaimed Check Point SMART Management framework simplifies complex policy definition and deployment. Nokia Network Voyager and Cluster Voyager provide complete local and remote WebUI appliance management, and Nokia Horizon Manager and Nokia Appliance Manager provide simple, comprehensive, centralized management of multiple appliances.

Simple Acquisition and Implementation

Nokia Firewall/VPN appliances minimize acquisition and installation complexity. Stable hardware configurations are pre-tested and pre-integrated with Check Point VPN-1 and Nokia IPSO. Nokia IPSO is security-hardened and supports key capabilities such as role-based administration, AAA, and TACACS+ client to help meet security mandates. Check Point VPN-1 is preinstalled on the appliance, and



native Nokia IPSO features—such as software acceleration, dynamic and multicast routing, and high availability—are included with no additional installation, licensing, or activation required.

Nokia First Call—Final Resolution Support

Best of all, like all Nokia Firewall/VPN Appliances, Nokia IP560 and Check Point VPN-1 are both backed by world-class Nokia First Call—Final Resolution support and service. Nokia First Call—Final Resolution offers a single point of technical support and assistance for both Nokia IP560 and Check Point VPN-1.

¹ Maximum throughput achieved under ideal testing conditions

Technical Specifications

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| <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>System Indicators</p> <ul style="list-style-type: none"> 10/100/1000 Ethernet port status Power status on system Failure status on system Port status on network interface cards System Operational Indicator |
| <p>LAN Support</p> <ul style="list-style-type: none"> 100BaseTx (10/100 Mbps Ethernet), copper 1000BaseT (10/100/1000 Mbps Ethernet), MMF Fiber 1000BaseF (1000 Mbps Ethernet), MMF Fiber | <p>Supported Standards</p> <ul style="list-style-type: none"> IPSec (RFCs 2401-2411, 2451) GRE (RFCs 1701 and 1702) Generic Routing Encapsulation RoHS and WEEE Compliant Designed to meet FIPS 140-2 |
| <p>Performance</p> <ul style="list-style-type: none"> Firewall - large packets 6.0 Gbps VPN - large packets 1.9 Gbps, AES256 CPS - 58,000 CPS | <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>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>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>Application Acceleration</p> <ul style="list-style-type: none"> VPN | <p>Immunity</p> <ul style="list-style-type: none"> EN55024: 1998 |
| <p>Environment</p> <ul style="list-style-type: none"> Temperature: 32°F to 104°F / 0°C to 40°C Humidity: 10% - 90% (non-condensing) Altitude: 10,000 feet | <p>Base System Configuration</p> <ul style="list-style-type: none"> 1GB System RAM, expandable to 2GB 4-port 1000 BaseT card 1-slot Type II PCMCIA carrier VPN Accelerator Card |
| <p>High Availability</p> <ul style="list-style-type: none"> VRRP RFC 2338 FireWall-1 State Sync Patented Nokia IP Clustering | <p>Optional PMC Cards</p> <ul style="list-style-type: none"> 4-port 10/100 BaseT 2-port 10/100/1000 BaseT 2-port 1000 BaseF, MMF 4-port 10/100/1000 BaseT 1-slot PCMCIA carrier card |
| <p>Security</p> <ul style="list-style-type: none"> Secure Administrative Access Role-Based Administration 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 Authentication (RIPv2) RFC 1723 Centralized Authentication Native IPSec (for non-firewall applications) DNS Client, NTP Client and Server RADIUS Client, TACACS+ Client | <p>Dimensions</p> <ul style="list-style-type: none"> Height - 1.75 in (4.4 cm) - 1U Width - 17 in (43.2 cm) without mounting brackets - 1U; or 19 in (48.2 cm) with mounting brackets Depth - 22 in (55.9 cm) Depth - 24.7 in (62.7 cm) at handles, standard bracket position Weight - 26.4 lbs (12 kg) Front access for upgrades and maintenance <p>Power Requirements</p> <ul style="list-style-type: none"> AC Input 100-120V / 200-240V Frequency 50 / 60 Hz AC Input Current 2.25 A / 1.125 A |

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European Customer Enquiry Numbers

France +33 170 708 166 Spain +34 914 140 777
 Germany +49 692 222 203 68 Sweden +46 856 610 789
 Italy +39 02 36003652 UK +44 161 601 8908

Email: ipsecurity.emea@nokia.com
 www.nokiaforbusiness.com

