

Nokia IP Security Solutions

Nokia IP2250

Nokia IP2250 Security Platform supports the highest levels of traffic most prevalent in vast and multi-faceted network infrastructures within the largest enterprise, service provider, and data center sites.

Nokia IP2250 is a new flash-based Network Processor (NP)-based platform with unique "Accelerated Data Path" (ADP) technology, providing resilient high performance for the most demanding perimeter security locations. Nokia IP2250 performance can support the highest traffic sites anywhere in the world with its NP-based hardware, ADP, and Nokia IPSO™ secure operating system technology. This carrier class platform provides capabilities for accelerating critical IP traffic, increasing connection rates, and improving throughput.

From inception, Nokia IP2250 was designed to scale for continually increasing network traffic needs. To ensure maximum performance and network uptime, Nokia IP2250 provides features that support software redundancy—VRRP, IP clustering, disk mirroring, and link aggregation as well as built-in hardware redundancy—power supplies and fans in a highly reliable diskless system.

Nokia continues to deliver industry-leading solutions to meet stringent customer security needs with best-of-breed hardware and software technology directly from Nokia and key partners. This includes Nokia software technologies for VPN and firewall enhancements in conjunction with partner Check Point™ VPN-1/Pro that accelerates firewall Connections Per Second (CPS) and VPN throughput.

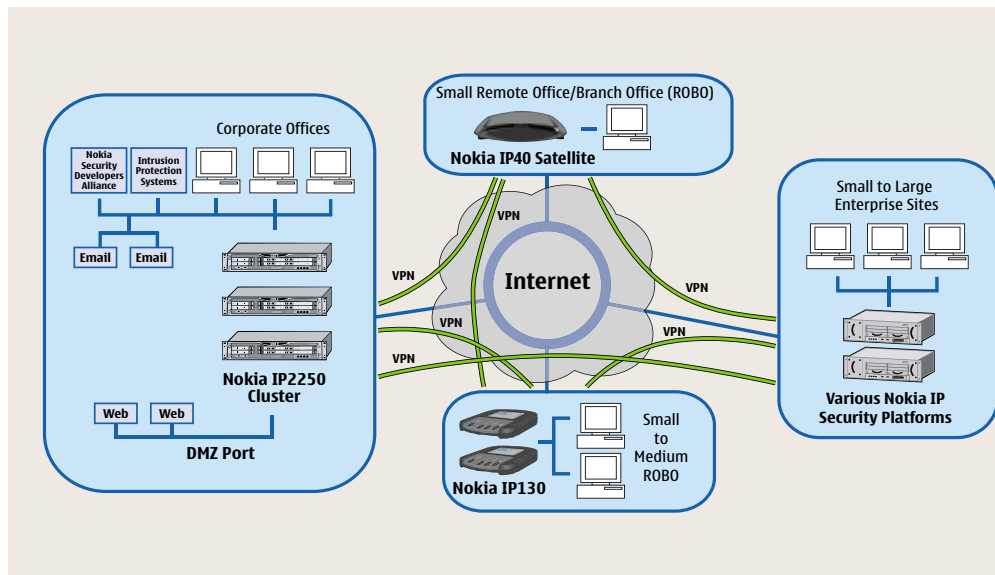
At an excellent price, with the performance and management to deliver industry-best power, redundancy, and overall capabilities, Nokia IP2250 effectively supports enterprise, carrier, and data networks around the world—all at a low Total Cost of Ownership.

The value of Nokia IP2250 is further enhanced with dual power supplies and fans along with 2GB of memory included in a base system. It also has excellent expansion capacity with up to thirty-six 10/100 Ethernet ports for large and growing network infrastructures or a mix of 10/100 and with up to eight 1000 Mbps Ethernet ports and an optional VPN acceleration card for high-speed VPN throughput. Included are the web-based Nokia Network Voyager and CLI interface



for single device management. Nokia Horizon Manager provides management for companies with multiple Nokia devices. In addition, Nokia IPSO brings added value to Nokia IP2250 with support for a wide array of protocols, such as RADIUS client, TACACS+ Client, and others.

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



Technical Specifications

Internet Protocols <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 OSPF NSSA DVMRP (multicast) RFC 1075 IGMP (multicast) RFC 2236 PIM-DM (multicast), PIM-SM Multicast Tunnels IGRP (optional) Cisco BGP4 (optional) RFC 1771 Route Maps IPv6 Core RFCs Requirements for IPv4 Routers RFC 1812 Differentiated Services (EF) RFC 2598 Bootp/DHC P Relay RFC 2131 Route Aggregation and Redistribution BGP4+ (for IPv6) Unnumbered Interfaces 	
LAN Support <ul style="list-style-type: none"> 10/100 Mbps Ethernet 1000 BaseF Multimode Fiber (MMF) 1000 BaseT (1000 Mbps only) 1000 Mbps MMF Ethernet 10/100/1000 Copper Ethernet 1000 Mbps Copper Ethernet (1000 Mbps only) 	
WAN Support <ul style="list-style-type: none"> PPP RFC 1661, 1662 Frame Relay FRF.1, RFC 1490 HDLC Cisco 	
Performance <ul style="list-style-type: none"> Firewall forwarding (7.5 Gbps) VPN forwarding (1.8 Gbps) FW Connections Per Second (99,000 CPS) 	
Management <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 	
Application Acceleration <ul style="list-style-type: none"> VPN (requires optional card) Accelerated Data Path (ADP) 	
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"> VRRP RFC 2338 Check Point FireWall-1 State Sync Nokia IP Clustering 	
Security <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 <p style="text-align: right;">(continued next column)</p>	
Security (continued from previous column) <ul style="list-style-type: none"> 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 	
System Indicators <ul style="list-style-type: none"> Integrated 10/100 Ethernet port status Power status on system Failure status on system port status Port status on network interface cards 	
Supported Standards <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) 	
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 	
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 Mbps management ports 4 slots for optional cards 2 Type II PCMCIA slots 2 GB System RAM 	
Card-Based Options <ul style="list-style-type: none"> 8-Port 10/100 Ethernet 2-Port Multimode Fiber (MMF) Gigabit Ethernet 2-Port Copper Gigabit Ethernet Nokia Encrypt Card 	
Dimensions <ul style="list-style-type: none"> Height: 5.21 in (13.2 cm) – 3RU Width: 19 in (48 cm) – with rack mounting ears Width: 17 in (43.2 cm) – without rack mounting ears Depth: 24.45 in (62 cm) – including front and rear handles Weight: 47.5 lbs / 21.6 kg Forward slide-out tray 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 	

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