

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 diskless 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 based on its NP based hardware, ADP and Nokia IPSO™ secure operating system technology with capabilities for accelerating critical types of IP traffic with a "shortest path" approach.

From inception, Nokia IP2250 was designed to scale for continually increasing network traffic needs. To ensure maximum performance and network uptime, Nokia IP2250 provides redundant software features with Nokia IPSO such as VRRP as well as built-in hardware redundant capabilities including hot swap interface cards, load sharing dual

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/FireWall-1 SecureXL 2.x that accelerates firewall Connections Per Second (CPS) and VPN throughput. This combination produces significant results such as 47,000 CPS.

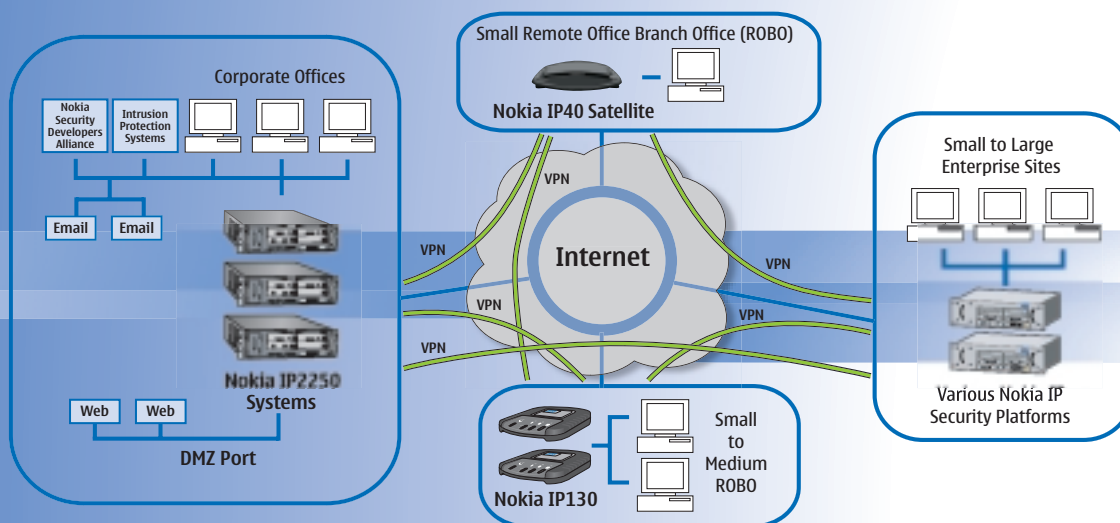
At an excellent price, with the performance and management to deliver industry best power, redundancy and overall capabilities, Nokia IP2250 effectively supports large financial institutions, high-end service providers, and the most important enterprise, carrier and data center networks around the world—all at a low Total Cost of Ownership.

The value of Nokia IP2250 is further enhanced with dual power supply, fans and 2 GB 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 up to eight 1000 Mbps Ethernet ports and an optional VPN acceleration card for high speed VPN throughput. Included is the web-based Nokia Network Voyager or 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 server, 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.



Nokia IP2250 At a Glance

Internet Protocols

- 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 & Redistribution
- Un-numbered Interfaces

LAN Support

- 10/100 Mbps Ethernet
- 1000 BaseF Multi-mode fiber (MMF)
- 1000 BaseT (1000 Mbps only)

WAN Support

- PPP RFC 1661, 1662
- Frame Relay FRF.1, RFC 1490
- HDLC Cisco

Performance

- Firewall forwarding (7.5 Gbps)
- VPN forwarding (1.8 Gbps)
- FW Connections Per Second (47k CPS)

Americas

Tel: 1 877 997 9199

Email: ipsecurity.na@nokia.com

Asia Pacific

Tel: +65 6588 3364

Email: ipsecurity.apac@nokia.com

Europe, Middle East and Africa

France +33 170 708 166

UK +44 161 601 8908

Email: ipsecurity.emea@nokia.com

Management

- SNMP RFC 1157, SNMPv2c, SNMPv3
- Telnet RFC 854
- FTP RFC 959
- SSHv2 (secure Telnet & FTP)
- HTTP Server RFC 2068
- SSL/TLS RFC 2246
- Command Line Utilities
- Supported in Nokia Horizon Manager

High Availability

- VRRP RFC 2338
- FireWall-1 State Sync

Security

- Secure Administrative Access
- Read/Write and Read-Only Access Modes
- SSH (secure Telnet & 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

Application Acceleration

- VPN (requires optional card)
- Accelerated Data Path (ADP)

System Indicators

- Integrated 10/100 Ethernet port status
- Power status on system
- Failure status on system
- Port status on network interface cards

Environment

- Temperature: 5°C to 40°C
- Humidity: 10% - 90% (non-condensing)
- Altitude: 10,000 ft

Supported Standards

- IPsec (RFCs 2401-2411, 2451)
- GRE (RFCs 1701 & 1702) Generic Routing Encapsulation
- Designed to meet NEBS III, and FIPS 140-2 (kit required)

Safety

- 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
- FCC Part 15, Subpart B, Class A, EN50024, EN55022A 1998, CISPR 22 Class A 1985, EN61000-3-2, EN61000-3-3

Immunity

- EN55024 1998



Nokia IP2250

Large Enterprise, Data Centers
and Service Providers

Standard:

- 4 integrated 10/100 Ethernet ports
- Slots for 4 optional cards
- 2 Type II PCMCIA slots

Card Based Options:

- 8-Port 10/100 Ethernet
- 2-Port Multi-mode fiber (MMF) Gigabit Ethernet
- 2-Port Copper Gigabit Ethernet
- Nokia Encrypt Card

Hardware:

- Height: 5.21 in. (13.2cm) – 3RU
- Width: 19 in. (48 cm) – w/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:

- AC Input Voltage 100-120V/200-240VAC
- Frequency 50/60Hz
- AC Input Current 3.0/1.5A



Secured by

