

# Nokia IP Security Solutions

## Nokia IP530

Nokia IP530 is a powerful IP security platform ideal for mid to large enterprises requiring a flexible solution for firewall, VPN, and other key security applications.

Nokia IP530 combines market-leading security software and the Nokia IPSO™ secure operating system for a secure, reliable and manageable security solution. It provides an excellent price/performance ratio with strong mid range throughput for real-world, mixed traffic environments. Nokia IP530 delivers high port density for the number of connections mid and large enterprise customers require through either 10/100, GigE or other connection types.

Nokia delivers industry-leading solutions across Nokia IP Security Platforms meeting stringent customer security needs with best-of-breed technology partners. These partners include Check Point Software

Technologies for VPN-1/FireWall-1 security software and additional partners through the Nokia Security Developers Alliance.

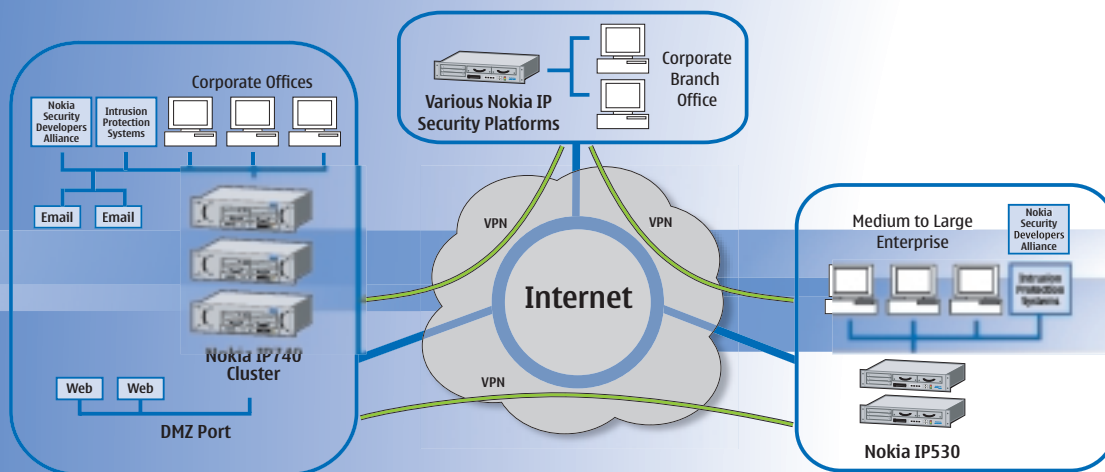
Nokia IP530 is a cost-effective platform for approved Developers Alliance applications within a framework of high reliability and robust performance at low Total Cost of Ownership (TCO).

Nokia IP530 capabilities include the availability of an encryption acceleration card for increased 3DES VPN performance, large routing tables (BGP complex OSPF environments), expansion capacity for more memory and mirrored drives, synched firewalls in “High Availability” environments, and the industry-proven hardened Nokia IPSO with patented Nokia IP Clustering. Also included on the Nokia IP530 is Nokia Network Voyager web and Command Line Interfaces (CLI).



Nokia IP530 acts as the backbone of many enterprise networks, and brings additional value with the availability of Nokia Horizon Manager and new Developers Alliance applications from Tripwire, SurfControl and Open Service. Nokia IPSO supports a wide array of protocols, such as RADIUS client and server, TACACS+ Client, and is optimized for secure performance firewall and VPN.

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



# Nokia IP530 At a Glance

## Internet Protocols

- ARP
- BGP-4 [software option]
- Bootp/DHCP Relay
- CIDR
- COPS
- Diff Serv (Expedited Forwarding)
- DVMRP
- 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
- Un-numbered Interfaces

## LAN Support

- 10/100 Mbps Ethernet
- 10/100/1000 Mbps Ethernet
- 1000 Mbps Ethernet MMF
- Transparent (Bridging) mode
- VLAN tagging

## WAN Support

- ATM [interface card option]
- 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]

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## Performance

- Firewall – large packets
  - 507 Mbps
- VPN – large packets
  - 115 Mbps 3DES (with card)
  - AES

## Management

- 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

- Firewall Flows
- VPN Acceleration Card (optional)

## Environment

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

## High Availability

- Disk Mirroring
- Nokia IP Clustering
- VRRP
- Check Point VPN-1/FireWall-1 State Sync

## Security

- 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

- Power and Fault
- Warning
- Port Status

## Certifications

- ICSA
- EAL4 Common Criteria (ISO/IEC 15408)

## 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 IP530

### Mid to Large Enterprise

#### Standard:

- 4 integrated 10/100 Base-T Ethernet ports
- 3 PCI slots for Network Interface Cards
- 1 internal PMC Slot (for encryption acceleration)

#### Optional Interfaces:

- Quad port 10/100 Mbps Ethernet
- Dual port serial V.35/X.21
- T1 single port with CSU/DSU
- E1 single port with CSU/DSU
- Dual port GigE Copper
- Single port ATM
- Single port ISDN EU only
- Dual port MMF GigE

#### Hardware:

- Height 5.1 in. / 13 cm (3U)
- Depth 16 in. / 41 cm
- Width 17 in. / 44 cm
- Weight 33 lbs / 15 kg
- Standard 19-inch rack mountable
- Front access for maintenance

#### Power Requirements:

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



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