

Nokia IP Security Solutions

Nokia IP740

Nokia IP740 is a purpose-built IP security platform for large enterprise, service providers and data centers.

Nokia IP740 combines market-leading security software and the Nokia IPSO™ secure operating system for a secure, reliable and manageable security solution. For large enterprise and service providers that demand maximum performance and network uptime, the Nokia IP740 provides software redundant features in Nokia IPSO such as VRRP and Nokia IP Clustering. Hardware redundant features include hot swap interface cards, dual power supplies and fans to meet demanding customer reliability.

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

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

Nokia IP740 provides an excellent price/performance ratio by delivering the best small and large packet throughput in its price range for real-world mixed traffic environments. With robust redundancy capabilities, Nokia IP740 supports financial institutions, high-end service providers, large enterprise, carrier and data center networks with high reliability while offering superb performance and a low Total Cost of Ownership (TCO).

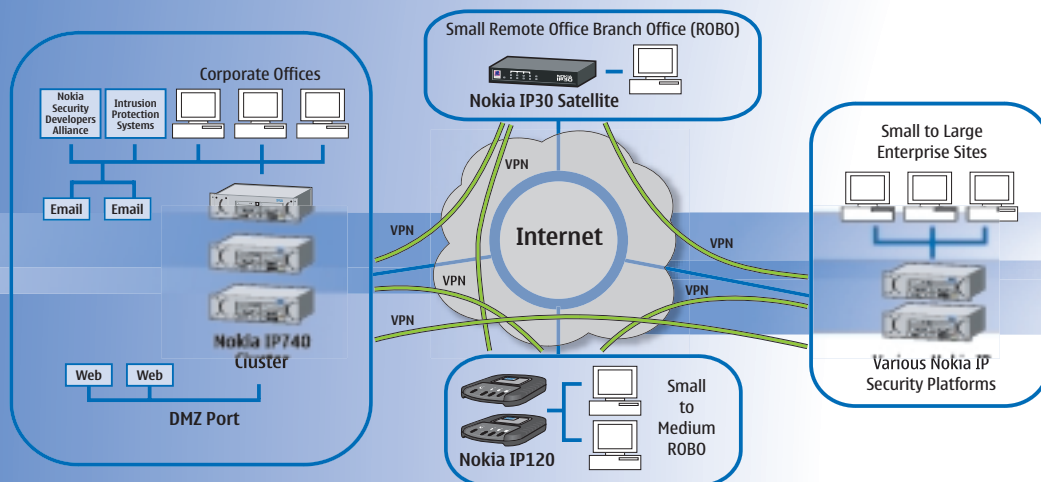
The value of Nokia IP740 is further enhanced with a standard encryption accelerator card, a second power supply, a second hard disk drive and 1GB of memory (upgradeable to 2GB) included. Nokia IP740 also has the most expansion capacity available in its class. It has superb reliability through



synched firewalls in “High Availability” environments, and the industry-proven and hardened Nokia IPSO patented IP Clustering.

Nokia IP740 has excellent manageability through use of either the Nokia Network Voyager web-based or CLI interface and Nokia Horizon Manager for multi-device management. Nokia IPSO supports 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.



Nokia IP740 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
 - 2 Gbps
- VPN – large packets
 - 139 Mbps 3DES
 - 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

Environment

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

High Availability

- Hot Swap
- 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
- Port Status

Certifications

- NEBS III
- 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 IP740

Large Enterprise Data Centers and Service Providers

Standard:

4 integrated 10/100 Base-T Ethernet ports
4 PCI slots for Network Interface Cards
2 Type II PCMCIA
Encryption accelerator
Dual HDD/RAID1 Redundant

Optional Interfaces:

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

Hardware:

Height 5.1 in. / 13 cm (3U)
Depth 21 in. / 53 cm
Width 17 in. / 44 cm
Weight 36 lbs / 16 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
Operating Temperature 5° C - 40° C

