

Nokia IP Security Solutions

Nokia IP740

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

The 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 IP740 provides software redundant features in Nokia IPSO such as VRRP and clustering. These features include hot swap interface cards, redundant 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, Internet Security Systems with RealSecure for

intrusion protection, and additional partners through the Nokia Security Developers Alliance.

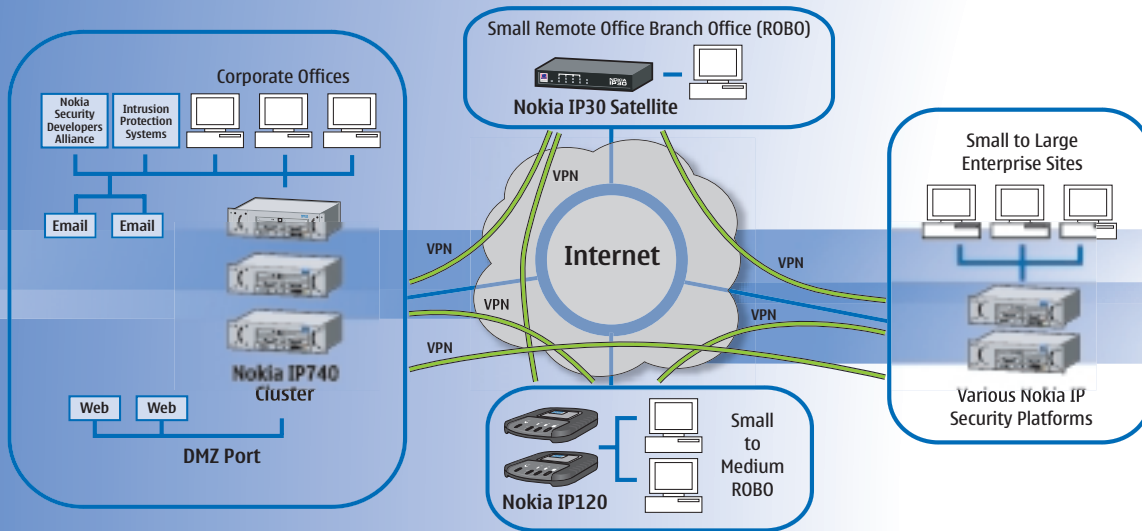
The Nokia IP740 provides an excellent price/performance ratio by delivering the best small and large packet throughput in its price range for real-world mixed traffic environments. With robust redundancy capabilities, the Nokia IP740 supports financial institutions, high-end service providers, large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

The value of the 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). The 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 hardened Nokia IPSO patented IP Clustering.

The Nokia IP740 has excellent manageability through use of either the Nokia Network Voyager web-based or CLI interface and Nolia 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 24/7 by Nokia world-class First Call—Final Resolution support.

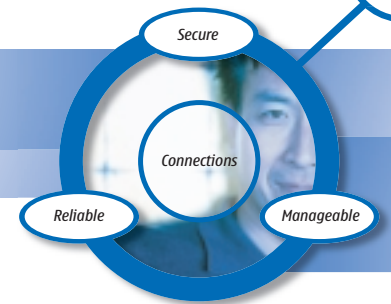


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Nokia IP740 at a Glance

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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
- Route Redistribution
- Un-numbered Interfaces

LAN Support

- 10/100 Mbps Ethernet
- Multi-mode fiber Gigabit Ethernet

WAN Support

- PPP RFC 1661, 1662
- Frame Relay FRF.1, RFC 1490
- HDLC Cisco
- T1/E1 (optional)
- V.35/X.21 (optional)
- ATM

Statistics

- Firewall throughput (2 Gbps)
- VPN throughput (139 Mbps)

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
- Nokia Patented Clustering
- Disk mirroring

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 Acceleration

System Status

- Indications
- 10/100 Ethernet port status

Environment

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

Supported Standards

- IPsec (RFCs 2401-2411, 2451)
- PPTP (RFC 2637) Point to Point Tunneling Protocol
- L2TP (RFC 2661) Layer 2 Tunneling Protocol
- GRE (RFCs 1701 & 1702) Generic Routing Encapsulation
- NEBS III



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

Optional Interfaces:

- Quad port 10/100 Ethernet
- T1/E1 with CSU/DSU
- Dual port serial V.35/X.21
- Multi-mode fiber Gigabit Ethernet
- Dual port Gig Ethernet
- ATM

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



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

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