

# Nokia IP Security Solutions

## Nokia IP40



Nokia IP40 is a fully integrated, feature-rich and pre-configured enterprise class security solution. It is for distributed enterprise remote office branch office (ROBO), work extenders and small and medium business who need robust VPN connectivity and firewall protection at a low cost.

Nokia IP40 is the new mobile connectivity and perimeter security solution for small offices that are pre-licensed with market-leading software for easy, out-of-the-box deployment. Nokia IP40 is built with Nokia time-honored quality for high reliability with no moving parts and ease-of-maintenance including automatic upgrades to provide robust and dependable service for years to come. The appliance combines the market-leading Check Point software on a purpose-built and Nokia-designed hardware platform. It is well-suited for customers

who demand complete network reliability and firewall security with features such as Virtual Router Redundancy Protocol (VRRP) as well as multiple VPN connection options offering excellent performance.

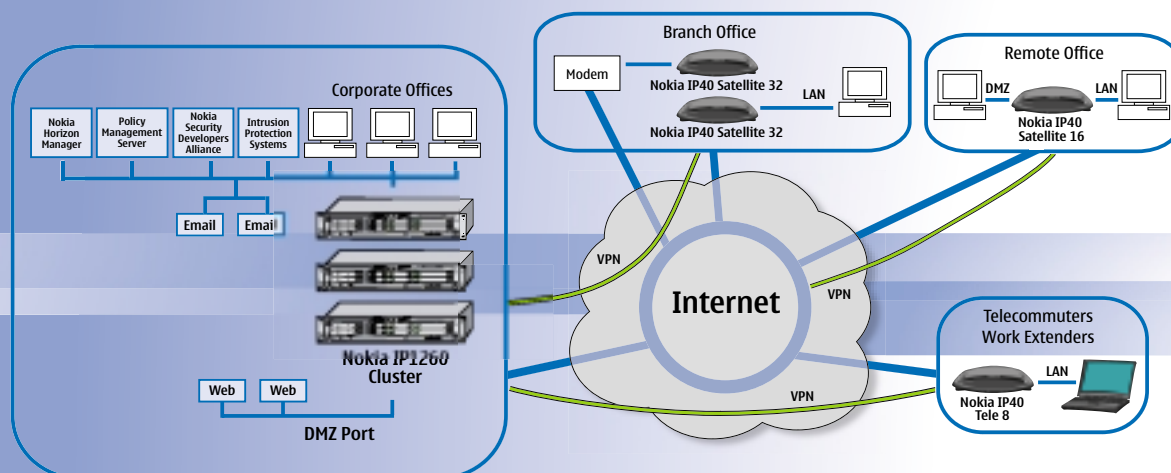
Nokia IP40 provides exceptional price-performance from a state-of-the-art system that enables full connectivity from remote to central offices or other multiple connection types. In addition to the LAN port, the Nokia IP40 has an Ethernet port to enable customers to secure a wireless LAN or other computers on the same appliance without affecting a corporate connection. The Nokia IP40 is also equipped with an AUX serial port for out-of-band management for dial backup remote configuration and troubleshooting.

For multiple sites, Nokia IP40 provides powerful remote and local management capabilities through Nokia Horizon Manager,

Check Point's SmartCenter and SmartLSM, and SofaWare's Security Management Portal. This allows the quick staging, easy installation of additional systems or configuring and upgrading appliances without network downtime. For local management, the console port is available for easy access via a Nokia command-line interface (CLI).

Four versions of the Nokia IP40 are available as robust enterprise class desktop devices. Nokia IP40 enables distributed enterprises, managed service providers and independent businesses to deploy VPN and security gateways with robust security and high performance quickly, easily and cost-effectively.

Best of all, security, performance and reliability are all backed 24/7 by Nokia world-class First Call—Final Resolution global support and services.



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## Four versions of the Nokia IP40 are available:

**Nokia IP40 Tele 8**—includes 8 nodes for firewall and 8 tunnels for VPN client capabilities, specially designed for work extenders and home telecommuters.

**Nokia IP40 Satellite 16/Nokia IP40 Satellite 32**—VPN gateway with integrated firewall that is ideal for site-to-site or client remote access scenarios; the Nokia IP40 Satellite 16 supports up to 16 nodes for firewall and 10 tunnels for VPN; the Nokia IP40 Satellite 32 supports up to 32 nodes for firewall and 10 tunnels for VPN.

**Nokia IP40 Satellite Unlimited**—VPN gateway with integrated firewall that is ideal for growing offices and enterprises, enabling site-to-site or client remote access scenarios. The Nokia IP40 Satellite Unlimited supports an unlimited number of nodes for firewall and 10 tunnels for VPN.

## All Nokia IP40 systems include:

### Firewall Features

- Stateful Packet Inspection Firewall
- NAT (Network Address Translation)
- PAT / PNAT (Port Address Translation)
- Predefined services
- User defined services
- Anti spoofing
- Logging and alerting
- Configurable per Interface

### Protection from DoS Attacks

- SYN attack Nestea
- Land attack ICMP flood
- Ping of death UDP flood
- Tear drop WinNuke
- Smurf IGMP fragments
- Bonk DDoS protection
- Invisible to Port Scan
- DoS and DDoS
- Malformed packets
- Malicious packet

## VPN Connectivity

- Site-to-Site VPN Connections
- Client-VPN Connections
- 3DES, DES, AES Encryption
- IPsec NAT
- Redundant VPN gateways
- Remote-Access VPN Client
- PPPoE support
- PPTP support
- DHCP client/server
- AUX Port for dial backup
- DMZ Port to connect a second LAN or computer
- WAN Failover with Out-of-Band Management and Dial Backup

## Routing

- BGP v4
- Independent Static Routes & NAT per interface

## High Availability

- VRRP support (without State Sync)

## Statistics

- Firewall (80 Mbps)
- VPN (15 Mbps, 3DES)

## Management

- Local management:
  - SSH Access
  - CLI VT100 Terminal Emulator
- Remote Management:
  - Nokia Horizon Manager v.1.3.1
  - Check Point SmartCenter
  - Check Point SmartCenter Pro (LSM)
  - Check Point Provider-1
  - SofaWare SMP v3.x and 4.x
  - SNMP v2 Manager
  - Syslog Server
  - Out-of-Band Management using PPP
  - Automatic Firmware updates using SMC
  - Check Point Logging Server

## Environment

- Temperature: 5°C to 40°C
- Humidity: 10% to 90% (non-condensing)
- Storage temperature: -20°C to 60°C

## Supported Standards

- IPsec (RFCs 2401-2411, 2451)
- PPTP (RFC 2637)
- GRE (RFCs 1701 & 1702) Generic Routing Encapsulation Passthrough
- BGP v4 (RFC 1771 ) Border Gateway Protocol
- IKE (RFC's 2409, 2410) Internet Key Exchange
- VRRP (RFC 2338) Virtual Router Redundancy Protocol

## Nokia IP40

**Distributed Enterprise, Remote Office, Branch Office, Work Extender, Small/Medium Businesses**

### Hardware Connectivity

WAN: 10/100 port  
LAN: 10/100 port  
DMZ: 10/100 port  
Console: DB-9 port for CLI access  
AUX: DB-9 port for Modem access

### Dimensions and Power

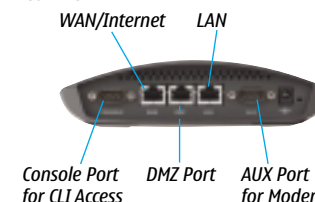
Dimensions W 7.2" x H 1.8" x D 5.8"  
(183.5mm x 43.0mm x 144.5mm)  
Weight 1.5 lbs. (700 g)  
Power input 100V, 120V, 230V



### Front View



### Rear View



## European Customer Enquiry Number

France +33 170 708 166

Germany +49 692 222 203 68

Italy +39 236 003 652

Spain +34 914 140 777

Sweden +46 856 610 789

UK +44 161 601 8908

Email: mobile.business.emea@nokia.com

www.nokia.com