

IP Security Nokia IP150

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Nokia for Business

Security challenges for small sites

With a constantly changing threat landscape and new security challenges emerging daily, extended business and small sites require a solution that can keep their corporate networks safe. Faced with the same security challenges as the largest corporations, but often with fewer resources to address them, they require a solution that provides the highest level of protection but is still easy to deploy and manage. In one compact form factor, Nokia IP150 security appliance offers Check Point unified threat management (UTM) capabilities that go beyond traditional firewall/VPN security to include antivirus and URL filtering features. Purpose-built for security, it offers performance, expandability, and a full set of operating system and management tools from Nokia at a competitive price.

Excellent price/performance

Nokia IP150 is a multi-purpose, one rack unit (1RU), hard disk-based security appliance offering powerful yet cost-effective UTM, traditional firewall, and next-generation UTM applications—including firewall, VPN, intrusion protection, antivirus, and web filtering. With four ports of 10/100/1000 Base-T (RJ45) Ethernet on-board, it delivers up to 550 Mbps large packet stateful firewall throughput and 80 Mbps of IPSec VPN performance. Nokia IP150 offers high-performance, cost-effective security that helps businesses stop internal and external attacks, prevents unauthorized access, and achieves regulatory compliance.

Comprehensive security for extended business and small sites

Nokia IP150 is ideal for organizations that require robust, large-business performance combined with simple remote management

and high reliability at a low total cost of ownership. Nokia IP150 offers comprehensive protection in remote locations, and sites can be managed centrally through Nokia Horizon Manager with Check Point SmartCenter and Check Point Provider-1. The solution provides a common user experience and ease of management across all Nokia IP security appliances available today. Extensible appliances such as Nokia IP150 offer you a flexible architecture to granularly expand the platform to meet the needs of a growing business, which helps ensure investment protection. Simple operating system upgrades unlock the power of the appliance to take your business to the next level, and the plug-in architecture extends the performance level to meet peak demands. The solution combines market-leading hardware design and quality from Nokia with Check Point VPN-1 UTM software and Nokia IPSO™ operating system for reliable and affordable security.



Nokia IPSO advantage

Nokia IPSO operating system has been designed from the ground up to perform security functions without the overhead that can create vulnerabilities in other security products that rely on general-purpose operating systems. It is a proven, secure operating system that natively supports key networking needs such as dynamic and multicast routing, IPv6, VLANs, link aggregation, and transparent mode, making integration into complex networks transparent and easy. Nokia IPSO includes necessary features such as IP Clustering and VRRP (Active/Active and Active/Passive High Availability options available at no additional cost), role-based administration, AAA with support for centralized databases, and third-party administrator authorization. Superior element management capability is accessible through an extensive command line interface in addition to Nokia Network Voyager graphical interface for secure, remote administration over a variety of out-of-band management channels. Nokia IPSO has a robust network management capability supporting SNMP v2 and v3, as well as interoperability with major systems management tools. Independently and extensively tested by Nokia Quality Assurance for standards compliance and interoperability with Check Point VPN-1 preinstalled at the factory, Nokia security platforms set a high standard for rapid deployment and dependability.

Nokia First Call—Final Resolution global support

Like all Nokia Firewall/VPN appliances, Nokia IP150 with Check Point VPN-1 and Check Point VPN-1 UTM is backed by world-class Nokia First Call—Final Resolution technical support and service. This offers organizations a single point of technical support and assistance for both Nokia IP150 and Check Point VPN-1 applications.

Technical specifications

Internet Protocols

- IP RFC 791
- ICMP RFC 792
- ARP RFC 826
- ICMP Router Discovery (server) RFC 1256
- Router Discovery v6 (ICMP v6) RFC 2466
- CIDR RFC 1519
- Static Routes
- RIP RFC 1058
- RIP Version 2 (with authentication) RFC 1723
- RIPng (IPv6) RFC 2080
- OSPFv2 RFC 2328
- OSPF NSSA RFC 3101
- OSPFv3 (IPv6) RFC 2740
- DVMRP (multicast) RFC 1075
- IGMPv2 RFC 2236
- IGMPv3 RFC 3376
- PIM-SM RFC 4601
- PIM-SSM RFC 4601
- PIM-DM RFC 3973
- PIM-DM State Refresh draft-ietf-pim-refresh-02.txt
- Multicast Tunnels
- IGRP (optional) Cisco
- BGP4 (optional) RFCs 1771, 1963, 1966, 1997, 2918
- BGP4++ RFC 2545, 2858 (unicast IPv6)
- IPv4 RFC 791
- IPv6 Core RFCs
- VRRPv2 RFC 3768
- VRRPv3 (IPv6) draft-ietf-rrp-ipv6-spec-08.txt
- Mobile IP (IPv4) RFC 2794, RFC 3024, RFC 3344, RFC 3519
- Requirements for IPv4 Routers RFC 1812
- Differentiated Services (EF) RFC 2598
- Bootp/DHCP Relay RFCs 951, 2131
- Route Aggregation and Redistribution
- Unnumbered Interfaces
- Link Negotiation IEEE 802.3
- Flow Control IEEE 802.3
- Private (RFC 1918) and Public IP Routing VLAN 802.3Q

Ethernet Ports

- 4 integrated 10/100/1000 Mbps

Security

- Secure administrative access
- Role-based administration
- Third party administrator authorization

- Read/Write and Read-Only access modes
- SSH (secure Telnet and FTP)
- SSL/TLS (secure HTTP) RFC 2246
- Encrypt end-user passwords
- S/Key (one-time password) RFC-1760
- Access Control Lists
- Traffic management
- MD5 routing
- Authentication (RIPv2) RFC 1723
- Centralized authentication
- NTP client and server RFC 1305
- RADIUS client, TACACS+ client

System Indicators

- 10/100/1000 Ethernet port status
- Power, Status, and Fault indications on system
- Port status on network interface cards

Emission Compliance

- FCC Part 15, Subpart B, Class A, EN55022A: 2003, CISPR 22 Class A: 2003, EN61000-3-2, EN61000-3-3

Immunity

- EN55024:1998

HDD Base System Configuration

- 1RU / 1RU width form factor
- 128 MB CompactFlash
- 1GB system RAM, expandable to 2 GB
- One 40 GB industrial grade 24/7 internal hard disk drive

Options

- Nokia VPN accelerator card

Dimensions

- Height: 1.69 in (4.30 cm) – 1 RU
- Width: 19.00 in (48.26 cm) with mounting bracket, 16.77 in (42.60 cm) without mounting bracket
- Depth: 11.05 in (28.07 cm)
- Shipping package: 22.00 L x 18.00 W x 8.00 H inches

Weight

- Bare unit: 10.50 lbs (4.76 kg)
- Shipping package (with unit): 15.10 lbs (6.85 kg)

Safety

- UL60950-2001
- CAN/CSA 22.2 No. 60950-2001, IEC 60950-1:2001
- EN 60950-1:2001+A11 Standard

Power Requirements

- AC input voltage: 100-120 V / 200-240 V
- Frequency: 50/60Hz
- AC input current: 4.0 amps (maximum)

LAN Support

- 10/100/1000 Base-T (10/100/1000 Mbps Ethernet)

Performance

- Firewall (with Nokia IPSO 4.2 and Check Point SecureXL): 500 Mbps large packet (1518), 100 Mbps small packet (64)
- VPN (with optional VPN card): 80 Mbps packet size (1450), AES256
- TCP session rate: >14,000 non-accelerated

Management

- SNMP RFC 1157, SNMPv2c, SNMPv3
- Telnet RFC 854
- FTP RFC 959
- SSHv2 (secure Telnet and FTP)
- HTTP Server RFC 2068
- SSL/TLS RFC 2246
- Command line utilities supported
- Nokia Horizon Manager

Environment Operating Conditions

- Temperature: 32°F to 104°F / 0°C to 40°C
- Altitude: 10,000 ft (3048 m)
- Humidity: 10% - 90% (non-condensing)

Environment Non-Operating Conditions

- Temperature: -5°C to +45°C
- Humidity: 5% - 95% (non-condensing)

High Availability

- VRRP (Active/Passive) RFC 2338
- Check Point FireWall-1 State Sync
- Nokia IP Clustering (Active/Active)

Work together. Smarter.

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