

# Nokia IP Security Solutions

Nokia IP290



# Nokia for Business

Extended enterprise and small offices are looking for more security functionality from their firewall appliance. New threats such as virus and SPAM attacks are affecting business productivity while IT resourcing constraints are driving the need for easy-to-use appliances that still put security first.

Nokia IP290 offers improved processing performance and additional system memory to support next generation UTM applications. In one compact appliance, Nokia IP290 offers Check Point unified threat management (UTM) capabilities that go beyond traditional firewall/VPN to include anti-virus and URL filtering features. Purpose-built for security, it offers optimal performance, expandability and the full set of Nokia secure OS and management tool benefits at a competitive price.

## Excellent Price Performance in a small form factor

Nokia IP290 multi-purpose security platforms are powerful yet cost-effective unified threat management (UTM) security appliances supporting traditional Firewall and next generation UTM applications that includes Firewall, VPN, Intrusion protection, Anti virus and web filtering.

The small form factor design allows for side-by-side redundancy in a single 1RU space providing a low-cost/high availability solution ideal for IP Clustering or VRRP technologies.

Nokia IP290 is ideal for small branch offices and extended enterprise that require robust, large enterprise performance combined with simple remote management and high reliability at a low total cost of ownership. Nokia IP290 offers the same level of protection in remote locations as in the corporate office. Nokia IP290 appliances combine market-leading Nokia hardware design and quality with Check Point VPN-1 UTM software and Nokia IPSO™ operating system for maximum security, high availability (Nokia IP Clustering and VRRP), reliability, affordability and manageability.

## Expandable design

Nokia IP290 hard drive or flash-based systems are half rack mountable units (1/2 RU wide and 1 RU tall appliances), purpose built for Check Point security applications. With six ports of 10/100/1000Base-T (RJ45) Ethernet ports on-board and an empty PMC slot for optional add-on interfaces, like 2 port 1000Base-X and 2 port 1000Base-Ethernet interfaces, it delivers an expandable and scalable platform for all your enterprise branch office or small enterprise security needs.

It is an extensible appliance offering you a flexible architecture to granularly expand the platform to meet the needs of a growing business, which helps ensure investment protection. Simple OS 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 as simple as push-and-click.

Nokia IP290 also utilizes Nokia traditional single, or multiple device management, for a common user experience and ease of management across all Nokia IP security appliances available today.

Because Nokia IP290 with Nokia IPSO and Check Point VPN-1 UTM are versatile, you have the option of single or side-by-side high availability (IP Clustering and VRRP) deployments.

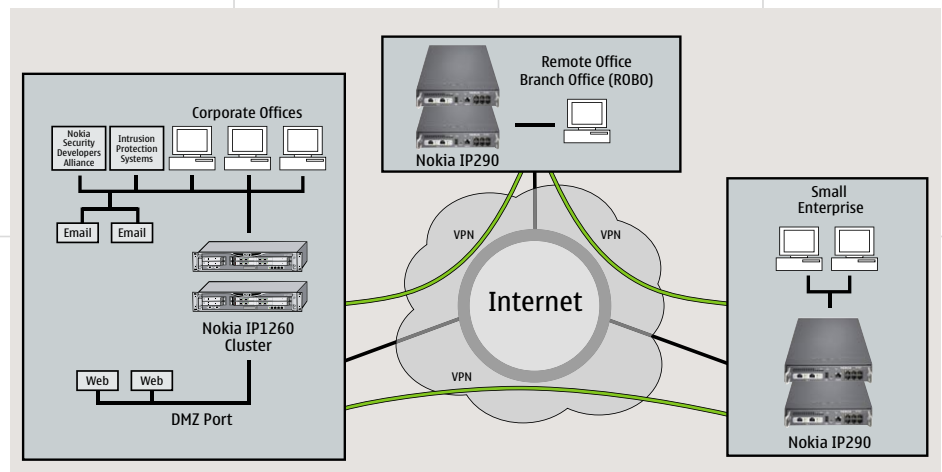


## Nokia IPSO™ Advantage

Nokia IPSO operating system natively supports key networking needs, such as dynamic and multicast routing, IPv6, VLANs and link aggregation—making integration into complex networks transparent. Nokia IPSO is security-hardened and supports key capabilities, such as role-based administration, AAA and TACACS+ clients, third party administrator authorization. IPSO eliminates the need for local administrator accounts that many compliance mandates require. Check Point VPN-1 is preinstalled on the appliance while native Nokia IPSO features, such as software acceleration, dynamic and multicast routing and high availability, are included with no additional installation, licensing, or activation required.


## Nokia First Call—Final Resolution Global Support

Best of all, like all Nokia Firewall/VPN Appliances, Nokia IP290 and Check Point VPN-1 UTM are both backed by world-class Nokia First Call—Final Resolution global support and service. This offers you a single point of technical support and assistance for both Nokia IP290 appliance and Check Point VPN-1 UTM application.



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# Technical Specifications

<b>Internet Protocols</b> <ul style="list-style-type: none"> <li>IP RFC 791</li> <li>ICMP RFC 792</li> <li>ARP RFC 826</li> <li>ICMP Router Discovery (Server) RFC 1256</li> <li>CIDR RFC 1519</li> <li>Static Routes</li> <li>RIP RFC 1058</li> <li>RIP Version 2 (With authentication)</li> <li>RFC 1723</li> <li>OSPF RFC 2328</li> <li>DVMRP (multicast) RFC 1075</li> <li>IGMP (multicast) RFC 2236</li> <li>PIM-DM (multicast), PIM-SM</li> <li>Multicast Tunnels</li> <li>IGRP (optional) Cisco</li> <li>BGP4 (optional) RFC 1771</li> <li>IPv6 core RFCs</li> <li>Requirements for IPv4 Routers RFC 1812</li> <li>Differentiated Services (EF) RFC 2598</li> <li>Bootp/DHCP Relay RFC 2131</li> <li>Route Aggregation &amp; Redistribution</li> </ul>	<b>Supported Standards and Certifications</b> <ul style="list-style-type: none"> <li>IPSec (RFCs 2401-2411, 2451)</li> <li>GRE (RFCs 1701 &amp; 1702) Generic Routing</li> <li>Encapsulation</li> </ul>
<b>LAN Support</b> <ul style="list-style-type: none"> <li>10/100/1000 Mbps Ethernet</li> </ul>	<b>Safety</b> <ul style="list-style-type: none"> <li>UL60950-1, First Edition</li> <li>CAN/CSA 22.2 No. 60950-1-03</li> <li>IEC 60950-1:2001</li> <li>EN 60950-1:2001+A11</li> </ul>
<b>Performance</b> <ul style="list-style-type: none"> <li>Firewall forwarding 1.5 Gbps</li> <li>VPN forwarding 1 Gbps DES, 3DES, AES256 with Nokia Encyption Accelerator</li> </ul>	<b>Power – Single System</b> <ul style="list-style-type: none"> <li>AC Input Voltage 100-120V/200-240VAC</li> <li>Frequency 50/60Hz</li> <li>AC Input Current: 2.0 Amps</li> </ul>
<b>VPN</b> <ul style="list-style-type: none"> <li>Anti-spoofing for Nokia IPSO Unnumbered Interfaces</li> <li>Interoperability between SecurePlatform and Nokia IPSO</li> <li>Nokia IP Clustering Support for Route-based VPN</li> </ul>	<b>Immunity</b> <ul style="list-style-type: none"> <li>EN55024 1998</li> </ul>
<b>Standard</b> <ul style="list-style-type: none"> <li>6 integrated 10/100/1000 Mbps Ethernet ports</li> <li>1 PMC slot</li> </ul>	<b>System Indicators</b> <ul style="list-style-type: none"> <li>Power status on system</li> <li>Failure status on system</li> <li>Integrated 10/100/1000 Ethernet port status</li> <li>Firewall &amp; SmartDefense</li> <li>VoIP Enhancements</li> <li>SYN Cookie</li> </ul>
<b>High Availability</b> <ul style="list-style-type: none"> <li>FireWall-1 State Sync</li> <li>VRRP RFC 2338</li> <li>IP Clustering (Nokia Patented, Pat #: 6006259)</li> </ul>	<b>Environment</b> <ul style="list-style-type: none"> <li>Temperature: 41°F to 104°F / 5°C to 40°C</li> <li>Humidity: 10% - 90% (Non-condensing)</li> <li>Altitude: 0 to 10,000 ft 0 to 3,330 meters</li> </ul>
<b>Security</b> <ul style="list-style-type: none"> <li>Secure Administrative Access</li> <li>Read/Write and Read-Only Access Modes</li> <li>SSH (secure Telnet &amp; FTP)</li> <li>SSL/TLS (secure HTTP) RFC 2246</li> <li>S/Key (one-time password) RFC 1760</li> <li>Access Control Lists</li> <li>Traffic Management</li> <li>MD5 Routing</li> <li>Authentication (RIPv2) RFC 1723</li> <li>Centralized Authentication</li> <li>DNS Client, NTP Client and Server</li> <li>RADIUS Client, TACACS+ Client</li> </ul>	<b>Emission Compliance</b> <ul style="list-style-type: none"> <li>FCC Part 15, Subpart B, Class A, EN55022A 1998,</li> <li>EN61000-3-2, EN61000-3-3</li> </ul>
<b>Management</b> <ul style="list-style-type: none"> <li>HTTP Server RFC 2068</li> <li>SSL/TLS RFC 2246</li> <li>Command Line Utilities</li> <li>Supported in Nokia Horizon Manager</li> <li>SNMP RFC 1157, SNMPv2c, SNMPv3</li> <li>Telnet RFC 854</li> <li>FTP RFC 959</li> <li>SSHv2 (secure Telnet &amp; FTP)</li> </ul>	<b>Dimensions</b> <p>Width:            (Single) 8.5 in (21.7 cm) - w/out rack mounting ears            (Double) 17.0 in (43.2 cm) - w/out rack mounting ears            (Double &amp; single) 19.0 in (48.3 cm) - w/ rack mounting ears</p> <p>Depth:            19.5" (49.4 cm) (w/ front handle)</p> <p>Height:            1.7 in (4.3 cm) – 1 RU</p> <b>Weight</b> <p>System only with mounting brackets:            12.1 LBS (5.5kgs) (single default)            14.1 LBS (6.4kgs) (doubledefault)</p> <div style="text-align: right;">  <p>Secured by Check Point</p> </div>

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