

IP Network Security Solutions



Nokia IP650

The Nokia IP650 is an optimized, mid-range carrier-class security platform delivering firewall, VPN, and intrusion detection systems to corporate data centers and large enterprises. The Nokia IP650 is purpose-built for the most demanding network environments such as high traffic e-commerce sites, data warehouses, and service provider data centers. At two rack units, the Nokia IP650 is a high port density system, conserving valuable rack space. With redundant power supplies and hot-swappable interface cards, the Nokia IP650 is intended for environments that require the highest levels of network uptime.

The Nokia IP650 comes with five CPCI slots for optional WAN and LAN interfaces. The wide variety of connectivity options include quad port 10/100 Ethernet, optical Gigabit Ethernet, high speed ATM, HSSI, and wide area network interfaces such as V.35/X.21, or T1/E1 allowing the IP650 to be easily integrated into any network architecture.

Nokia IP650 at a Glance

Internet Protocol

- IP RFC791
- ICMP RFC792
- ARP RFC826
- ICMP Router Discovery (Server) RFC1256
- CIDR RFC1519
- Static Routes
- RIP RFC1058
- RIP Version 2 (with authentication) RFC1723
- OSPF RFC2328
- DVMRP (multicast) RFC1075
- IGMP (multicast) RFC2236
- PIM-DM (multicast)
- PIM-SM
- Multicast Tunnels
- IGRP (optional) Cisco RFC1771
- BGP4 (optional) core RFCs
- IPv6
- Requirements for IPv4 Routers RFC1812
- Differentiated Services (EF) RFC2598
- Bootp/DHCP Relay RFC2131
- Route Aggregation
- Route Redistribution
- Unnumbered Interfaces

LAN Support

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

WAN Support

- PPP RFC1661, 1662
- Frame Relay FRF.1, RFC1490
- HDLC Cisco
- ATM
- ISDN BRI
- T1/E1 (optional)
- V.35/X.21 (optional)

Management

- SNMP RFC1157
- SNMPv2c
- SNMPv3
- Telnet RFC854
- FTP RFC959
- SSHv2 (secure Telnet & FTP)
- HTTP Server RFC2068
- SSL/TLS RFC2246
- Command Line Utilities
- Supported in Nokia Horizon Manager

High Availability

- VRRP RFC2338
- FireWall-1 State Sync

Security

- Secure Administrative Access
- Read/Write and Read-Only Access Modes
- SSH (secure Telnet & FTP)
- SSL/TLS (secure HTTP) RFC2246
- S/Key (one-time password) RFC1760
- Access Control Lists
- Traffic Management
- MD5 Routing Authentication (RIPv2) RFC1723
- Centralized Authentication
- Native IPSEC (for non-firewall applications)

Application Acceleration

- Firewall Flows
- VPN Acceleration Card (optional)

System Status

- Indications
- 10/100 Ethernet port status



Environment


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

Safety

- UL1950, CE Mark, CUL/CSA 22.2 NO. 950-M93, IE950, TUV EN60950

Emission Compliance

- FCC Part 15, Class A, EN55022 (CISPR22, Class A) CEMark




Nokia IP650

Standard:
5 Hot-swap CPCI Interface Slots

Optional Interfaces:

- Quad-port 10/100 Ethernet
- T1/E1 with CSU/DSU
- Single- and dual-port serial V.35/X.21
- HSSI
- ATM Multi-Mode Fiber
- External Modem
- ISDN-BRI (Euro-ISDN)
- Multi-mode fiber Gigabit Ethernet

Height 3.5 in. / 9 cm (2RU)
Depth 18 in. / 46 cm
Width 17 in. / 43 cm
Weight 35 lbs. / 16 kg
Standard 19-inch rack mountable



Nokia Internet Communications

Americas

Tel: 1 877 997 9199
E-mail: internet.na@nokia.com

Europe, Middle East and Africa

European Customer Inquiry Number (toll-free): 00800 5543 1816
Outside toll-free area: +49 231 754 6011
E-mail: internet.emea@nokia.com

Asia Pacific

Tel: +65 588 3364
E-mail: internet.apac@nokia.com

