

Nokia IP Network Application Platforms at a Glance

SERIAL LINE PROTOCOLS

PPP RFC1661, RFC1662
 Frame Relay FRF.1, RFC1490
 HDLC Cisco

IP ROUTER FUNCTIONALITY

IP RFC791
 ICMP RFC792
 ARP RFC826
 Router discovery (Server portion) RFC1256
 CIDR RFC1519

BOOTP/DHCP Relay Agent

Route Aggregation
 Route Redistribution
 Requirements for IPV4 Routers RFC1812

IP MULTICAST

DVMRP RFC1075
 IGMPv2 RFC2236
 Multicast Tunnels

ROUTING PROTOCOLS

RIPv1
 RIPv2 (with authentication)
 OSPFv2
 VRRP
 IGRP (optional)
 BGP4 (optional)
 Static Routing

HIGH AVAILABILITY/RELIABILITY

Virtual Router
 Redundancy Protocol
 FireWall-1 Synchronization
 Traffic Management
 Access Control Lists

NETWORK MANAGEMENT

Secure Administrative Access
 F-Secure SSH (SecureShell)
 S/Key—one-time password
 Voyager Web via HTTP
 CLI via Telnet
 SNMP & SNMP MIB II

System Status

Indications
 – I/F Card Status

Changes

– Power Supply Changes
 – Fan Tray Failures
 – System Temperature

Emission Compliance

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

Safety

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

IP650	IP440	IP330
<p>5 Hot-swap CPCI Interface Slots</p> <p>Interfaces:</p> <ul style="list-style-type: none"> • Quad-port 10/100 Ethernet • T1 with CSU/DSU • Single- and dual-port serial V.35/X.21 • HSSI • ATM Multi-Mode Fiber • Token Ring • External Modem <p>Height 3.5in/9cm (2RU) Depth 18in/46cm Width 17in/43cm Weight 35lbs/16kg Standard 19-inch rack mountable</p>	<p>4 PCI Interface Slots</p> <p>Interfaces:</p> <ul style="list-style-type: none"> • Quad-port 10/100 Ethernet • Single-port 10/100 Ethernet • T1 with CSU/DSU • Single and dual-port serial V.35/X.21 • HSSI • FDDI • ATM Multi-Mode Fiber • Analog Modem (optional) <p>Height 7in/18cm Depth 18in/46cm Width 17in/43cm Weight 42lbs/19kg Standard 19-inch rack mountable.</p>	<p>One CPCI Interface Slot</p> <p>Interfaces:</p> <ul style="list-style-type: none"> • 3 Integrated 10/100 Ethernet ports • Dual-port 10/100 Ethernet • T1 with CSU/DSU • Single-port serial V.35/X.21 • Analog Modem (optional) <p>Height 1.75in/4.5cm (1RU) Depth 16in/41cm Width 17in/43cm Weight 12lbs/5.4kg Standard 19-inch rack mountable</p>