Product Brief

Advanced Remote Node (ARN) Enterprise Access Router

- Delivers extended interface density and flexibility
- Supports high-performance networking
- Provides maximum investment protection



The Advanced Remote Node (ARN*) from Nortel Networks delivers an innovative access router architecture with the performance and modularity to solve today's application needs and meet the increasing demands of the evolving corporate intranet.

The ARN design integrates the functions of multiple devices to reduce the complexity of remote network management. Nortel Networks high-speed access routers significantly lower the total cost of ownership and provide the highest degree of investment protection for enterprise networks.

The local area network (LAN – Ethernet, 10/100Base-TX, 100Base-FX, and Token Ring) interfaces of the ARN offer flexible connectivity. Its two wide area network (WAN) adapter module "slots" provide an array of options for integrating devices (ISDN BRI, Data Service Unit/Channel Service Unit [DSU/CSU], V.34 modem) for primary and backup WAN connectivity. This modular design reduces the number of physical devices and amount of cabling required for system operation, and also facilitates remote network management.

Nortel Networks Routing Services (BayRS*) software offers the most comprehensive WAN service support (leased line, Frame Relay, X.25, SMDS, Dial Services, even ATM), allowing customers to choose the most cost-effective primary and backup links available for their remote site applications. BayRS software WAN optimization features supply key benefits such as Data Compression, Traffic Prioritization, Uniform Traffic Filters, and Dial Optimized Routing. Increasing available network bandwidth and maximizing traffic control significantly reduces costs.



Optional expansion modules—including a choice of Ethernet/Multiserial, 7-serial, or tri-serial—offer additional serial interfaces. The expansion module can also hold a LAN interface for integrating existing low-speed legacy device traffic (Synchronous Data Link Control [SDLC], Binary Synchronous Communications [BSC], polled Async, or X.25) and LAN-based client/server traffic over a consolidated WAN link to the corporate backbone.

The ARN employs Motorola MC68040 and MC68360 microprocessors to handle the demands of compute-intensive internetwork applications. This includes multiprotocol routing, SNA integration, traffic management, and high-speed WAN communication.

Seamless integration with the enterprise internetwork is ensured through Nortel Networks Optivity* network management application support for comprehensive node configuration, monitoring, and control. Optional embedded Ethernet Remote Monitoring (RMON) probes-Data Collection Modules (DCMs)-provide visibility into network activity at remote sites where there is typically no dedicated support staff. Automated Software RMON support is available for the 10-Mbps and 100-Mbps systems.

The ARN is a critical part of the product family. Combined with the 10BaseT stackable hubs, 100BaseT hubs, Ethernet/Fast Ethernet switches, and remote access devices, the ARN delivers a robust, scalable solution for providing remote office connectivity to the enterprise network.

Benefits

Delivers extended interface density and flexibility

With support for up to four LAN and seven serial interfaces, the ARN provides an ideal platform for remote sites combining multiple core legacy devices (SDLC, BSC, polled Async or X.25) and LAN-based client/server traffic (IP and IPX) over Frame Relay, X.25, X.25 PAD leased line, or dial (analog or ISDN) links (*see Figure 1*).

By integrating transmission devices such as 56K or T1/E1/FT1/FE1 CSU/ DSUs, ISDN BRI, or modems into the ARN chassis, the number of multivendor, separately managed devices and cabling is reduced. This simplifies remote management and enhances reliability.

Supports high-performance networking

The high-performance architecture of the ARN supports concurrent execution of compute-intensive applications including SNA network integration (Data Link Switching-DLSw), Advanced Peer-to-Peer Networking (APPN), SDLC, WAN bandwidth optimization (compression, prioritization, filters), and remote office link security (firewalling, encryption). Two types of link routing are supported: wire-speed LAN-to-LAN (Ethernet, Fast Ethernet, and/or Token Ring) and multiple high-speed WAN (T1/FT1/E1).

Provides maximum investment protection

Beyond answering the needs of most current remote networks, the futureproof design of the ARN provides ample performance headroom for emerging application requirements. The continuing development of WAN adapter modules assures an easy, cost-effective migration path for upgrading to the newest WAN access technologies.

Features

High-performance processors and memory modules

The high-performance, highly flexible base unit of the ARN router contains a Motorola 33 MHz MC68040 microprocessor, ensuring high forwarding and filtering rates across each of its network interfaces.



Figure 1: Network design options

In addition, 8, 16, or 32 megabytes (MB) of DRAM can be installed and configured to support customized partitioning between local and global memory. Router software resides in local memory while global memory is dedicated to packet buffers. Through these reserved buffers, the ARN prevents traffic overflow and resulting network delays caused by large bursts of traffic, such as file transfer operations.

Base module LAN interfaces

The ARN can be configured to support 10Base-T Ethernet, autosense 10/100Base-TX (Fast Ethernet), 100Base-FX (Fast Ethernet), and Token Ring to meet a wide variety of connectivity requirements.

10Base-T Ethernet/802.3

The 10Base-T Ethernet/802.3 interface supports IEEE 802.3 and Version 1.0/2.0 Ethernet formats. Both an AUI (DB-15) and RJ-45 connector are provided for a choice of connectivity.

10/100Base-TX

The ARN 100Base-T interfaces support the copper and fiber optic 100Base-T cabling standards— 100Base-TX and 100Base-FX—for flexible connectivity. The 10/100Base-TX autosensing interface automatically senses the line speed (either 10 Mbps or 100 Mbps), providing a high-speed LAN connection to branch offices as they migrate to Fast Ethernet technologies. An RJ-45 connector is provided for cable connection. The 100Base-FX interface provides an ST connector to allow the use of fiber optic (100Base-FX) cable.

Token Ring

The Token Ring interface can operate at either 4 or 16 Mbps ring speeds (software configurable), providing the flexibility to migrate to higher speeds as performance requirements dictate. A 9-pin D subminiature (DB-9) connector for Shielded Twisted Pair (STP) and an RJ-45 connector for Unshielded Twisted Pair (UTP) are provided for Token Ring cable attachment.

Base module expansion options Personal Computer Memory

Card International Association (PCMCIA) Flash Memory Card

The 8 or 16 MB of externally accessible PCMCIA Flash memory of the ARN allows for nonvolatile storage of router software and configuration files. Software image and configuration files can be downloaded remotely to the flash memory card, simplifying router upgrades and fault recovery procedures. To facilitate remote configuration and management, the PCMCIA flash memory card can even be programmed at the network center, mailed to a remote site, and easily installed by untrained personnel.

To provide redundancy, the PCMCIA flash memory card can be logically divided into two partitions of equal size. Each partition is a uniquely addressable and fully functional flash file system volume where copies of boot images and configuration files can be stored.

V.34 Console Modem Module

In addition to the standard console and external modem interfaces of the ARN, a V.34 console modem option can be installed to simplify remote router deployment. The module also supports out-of-band troubleshooting should remote network access become unavailable.

Redundant Power Supply Unit

For mission-critical deployments, an optional Nortel Networks Redundant Power Supply Unit (RPSU) can be connected to the ARN router, providing a secondary power source in case its primary power supply fails.

Ethernet RMON Probe

An optional DCM can be attached directly to the Ethernet base module of the ARN, providing comprehensive monitoring capability to the router. The probe contains a 25 MHz Motorola MC68040 microprocessor. It supports all nine groups of the Ethernet RMON MIB (RFC 1757), including Layer 3 traffic monitoring. Through continuous monitoring of the ARN router's Ethernet LAN segment, the DCM collects, correlates, and summarizes long-term network activity data. The resulting historical information can then be used to detect trends in network performance, faults, and traffic flows, as well as to determine the optimum configuration to maximize network performance.

LED matrix display

A comprehensive matrix of LEDs presents clear, at-a-glance status readouts of key ARN system components. This includes the base module, WAN adapters, expansion and data collection modules, PCMCIA memory, RPSU status, fans, and router software loading. Along with providing quick insights into the router's status, the LED matrix can also be used to supply networking administrators with a remote view of the router's status via SNMP.

Integral WAN connectivity

The ARN router's slide-in WAN adapter modules offer the functionality of WAN transmission devices, supplying an integrated solution that is easily managed as a single platform. The WAN flexible interfaces of the ARN enable users to choose among today's alternative wide area networking links, including Point-to-Point Protocol (PPP) (synchronous or asynchronous), Frame Relay, X.25, ISDN, Switched Multi-megabit Data Service (SMDS), or Asynchronous Transfer Mode (ATM).



Figure 2: Front and rear view of ARN

Up to two WAN adapter modules can be inserted into the router. The modules ensure easy, cost-effective upgrades to newly available, higher bandwidth WAN services while preserving the initial router investment *(see Figure 2).*

WAN adapter module options Serial

The serial interface supports V.35, RS-232, RS-449/422 balanced, RS-530, and X.21. Using either internal or external clocking, serial interfaces can be operated at speeds from 1200 bps to 2.048 Mbps, full duplex, and support the use of T1 and E1 services.

The ARN router's serial interfaces can also be used to integrate remote site SNA devices such as SDLC and BSC controllers, allowing them to share WAN access with a site's LAN traffic. Nortel Networks support of BSC Pass-Through allows customers to converge BSC 3270 device traffic. Automated teller machine traffic, for example, can be put on a high-performance, multiprotocol IP backbone, eliminating costly dial-up BSC links. Using standard TCP/IP as the internetwork transport, dynamic rerouting capability provides added resiliency for missioncritical BSC data.

ISDN Basic Rate Interface (BRI)

Supplying two 64-kbps B-channels for data and one 16-kbps D-channel for signaling, ISDN BRI adapter modules provide an integrated, high-performance solution for companies interested in using the extensive dial services offered by Nortel Networks. They include Dial Backup, Dial-on-Demand, and Bandwidth-on-Demand.

ISDN BRI options are available with or without an integral Network Termination 1 (NT1) device, allowing users to choose the solution that best fits the requirements of each site. The ISDN BRI "U" adapter module provides the necessary integral NT1 interface for direct connection to most North American ISDN BRI networks. For locations where the NT1 interface is provided by a service provider or Public Telephone and Telegraph (PTT) company, the ISDN BRI "S/T" adapter module ensures the necessary connectivity. Both ISDN BRI modules support worldwide signaling specifications (*see Table 1*).

T1/Fractional T1 Data Service Unit/ Channel Service Unit (DSU/CSU)

The T1 and Fractional T1 (FT1) DSU/CSU module offers high-speed connectivity to the digital services networks in North America. It is capable of operating at fractional T1 rates, in increments of 64 kbps, up to 1.544 Mbps. Users can customize the DS-0s in the FT1 connection. For example, users can select DS-0 # 1, 5, 15 and 18 to make up a 256-kbps Fractional T1 link. This module is designed to support one logical channel per one physical interface, typical of a remote branch office requirement. Extensive diagnostic and test functions-such as loopback and Bit Error Rate Test (BERT) tests-are also built in for easy troubleshooting.

E1/Fractional E1 adapter module

The E1 and Fractional E1 (FE1) adapter module provides a 2.048 Mbps G.703 interface for high-density access to a variety of international communications services.

56/64-kbps DSU/CS

The integral 56/64-kbps DSU/CSU adapter module provides direct synchronous access to either 56-kbps DDS or 64-kbps Clear Channel dedicated services, facilitating a simpler connection between the router and the service provider's facilities. Extensive diagnostic and loopback test capabilities—

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Table 1: Supported ISDN signaling specifications

Region/Country	ISDN Standard
Australia	AUSTEL TSO13
Europe	Euro ISDN (CTR4)
France	VN-3
Japan	INS-64
North America	National ISDN-1
	AT&T 4ESS and 5ESS ISDN
	Nortel Networks DMS-100 and DMS-250

including the generation of and response to ITU-T V.54 Remote Loopback—allow network administrators to readily pinpoint WAN connection difficulties with either router, DSU, or WAN facilities. This makes the ARN easier to troubleshoot.

V.34 modem

When Switched 56 or ISDN BRI services are not available or considered cost-effective, the ARN router's integral V.34 modem adapter module can be used to support Nortel Networks dial services capabilities. Modem adapter module speeds range from 1,200 bps to 115,200 bps on standard analog telephone lines. Providing nominal speeds of 28.8 kbps, the V.34 modem's standard V.42bis compression capabilities boost throughput to 115.2 kbps or greater. Standard V.42 and MNP 10 error correction capabilities also ensure reliable transmission of mission-critical data.

X.25 PAD

The ARN X.25 PAD option provides support for legacy applications that use the X.25 protocol for communications. Retail and banking customers are typical users of X.25. Many customers are planning to replace their X.25 backbone network with a more costeffective backbone network—such as Frame Relay—using IP. The ARN PAD option offers the capability to these customers to migrate to an IP-based network. The PAD can use the IPEX feature to forward the packets destined to an X.25 host via a non-X.25 WAN backbone, such as Frame Relay. Or, the PAD can present X.25 data directly to an X.25 WAN backbone. *Figure 3* illustrates a typical X.25 PAD application.

Auxiliary remote expansion modules

The ARN router's optional expansion modules allow the router to be configured to support a second LAN interface (Ethernet or Token Ring) and/or three or seven serial (Synchronous/ Asynchronous) interfaces. Along with the new ARN Ethernet/Multiserial and 7-serial expansion modules, options include Tri-Serial, Ethernet, Ethernet plus Tri-Serial, Token Ring, or Token Ring plus Tri-Serial. The expansion module's serial interfaces provide three connections for synchronous or asynchronous WAN circuits and/or legacy devices.

Similar to the base module of the ARN, Ethernet-based expansion modules can be continuously monitored through use of the Nortel Networks DCM.



Power options

The ARN is available with one 100 to 240 VAC power supply or one -48 VDC to -60 VDC power supply.

Maximized connectivity and interoperability via BayRS

The ARN runs BayRS router software to maximize efficiency for remote office connectivity in multivendor, multiprotocol environments and supports all major network and bridging protocols.

Software options

Three different levels of software are available for the ARN router, including IP Access, Remote Office, and Corporate (see *Table 3* at the end of this document). This allows the ARN to be configured with software that best fits the remote site's requirements.

Traffic management

Comprehensive traffic management capabilities are provided to the ARN router through the use of BayRS Data Compression, Traffic Prioritization, and Uniform Traffic Filters.

Data Compression

Configurable on a per-circuit or link basis, Nortel Networks software-based Data Compression feature is supported by all Nortel Networks routers, maximizing internetwork performance by reducing the amount of bandwidth required to transport traffic over the WAN. Data Compression is supported over Frame Relay, X.25, and PPP (over leased lines and dial-up analog or ISDN links), maximizing throughput over ARN full-duplex WAN links.

Traffic Prioritization

To ensure the highest quality of service, Traffic Prioritization allows high-priority delivery to be assigned to time-sensitive and/or mission-critical traffic. Traffic Prioritization reduces the occurrence of session timeouts and improves application response times. Priority filters can be configured to place packets into one of three priority queues—high, normal, or low. Priority filters can be applied to the complete family of network and bridging protocols supported by Nortel Networks routers. Priorities can be assigned to packets based on their protocol, source, destination address, packet type, and other protocol-specific fields. Other fields that are identifiable by a fixed offset in a packet can also be assigned priorities.

Traffic Prioritization uses either a strict dequeuing algorithm or a bandwidth allocation dequeuing algorithm to transmit packets across a serial line. Strict dequeuing transmits all packets from the high-priority queue before transmitting packets from the normal and low-priority queues. Bandwidth allocation dequeuing ensures that large amounts of high-priority traffic do not prevent transmission of other traffic, based on configurable bandwidth allocation percentages for each queue.

Uniform Traffic Filters

Inbound and outbound Uniform Traffic Filters can be applied to all network and bridge protocol traffic. Uniform Traffic Filters is a useful tool for network administrators in developing an effective and comprehensive network security strategy. In addition, Uniform Traffic Filters preserves WAN bandwidth and can increase performance by reducing network congestion.

Uniform Traffic Filters can be configured to accept or drop packets at any Nortel Networks router's network interface. Additionally, they can log matches between a packet and a filter, providing an audit trail for particular network activity.

Differentiated Services for QoS

In addition to other traffic management features, BayRS supports Differentiated Services (DiffServ) for scalable, end-to-end, standardsbased IP QoS. The ARN will classify and condition packets by setting Differentiated Services Code Point (DSCP) bits based on policy filter information. Policy-based filters may be statically defined or set dynamically from the central Optivity Policy Server. DiffServ identifies three classes of Service: Expedited Forwarding, Assured Forwarding, or Default. Several dequeuing mechanisms are supported for such traffic, including Strict Dequeuing, Bandwidth Allocation, Weighted Fair Queuing (WFQ), Random Early Detection (RED, and Weighted Random Early Detection (WRED).

Remote installation and management

Remote installation of the ARN router is simplified through the use of EZ Install and EZ Update, two software applications designed to make installations, reconfigurations, and software updates from a central site quick and easy. In addition, remote management is facilitated by the DCM's standard Ethernet RMON features, which can be used to analyze the attributes and operating patterns of the remote network.

EZ Install

The EZ Install application eliminates the time and expense of sending a technical resource to install and configure an ARN router. At the remote site, once the LAN and serial interfaces of the ARN are connected and the unit is powered up, the ARN obtains its software image from flash memory and its configuration file from EZ Install over the network. By using EZ Install, the ARN is able to automatically obtain its IP address from a central site Nortel Networks router. and its configuration file from a central site server using the BootP protocol (see Figure 4). After verifying that a configuration file has been successfully downloaded to the DRAM of the ARN via EZ Install, the configuration data is saved to flash memory for nonvolatile local storage.

EZ Update

The EZ Update application facilitates the automatic downloading of software updates and configuration files, minimizing the time and expense associated with remote site software maintenance. The existing ARN configuration file and software image are stored in the nonvolatile flash memory of the ARN for use as backup in case problems are encountered while downloading new software.

To use EZ Update, the ARN is dynamically configured to boot its configuration file and software image from the central site. The ARN can then be rebooted or power-cycled, and a new configuration file and/or software image downloaded to the DRAM of the ARN from a central site server. Once it has been determined that the new configuration file or software update is acceptable, it can be saved to the flash memory of the ARN, replacing the previous configuration file and/or software image.

SNMP-based node management

Nortel Networks Optivity network management applications deliver a complete, SNMP-based enterprise management solution that provides operation, policy, and design services for end-to-end management of routers, hubs, and switches. This approach enables proactive network planning and accelerates problem solving, resulting in reduced costs associated with owning and operating corporate internetworks of any size.

Router system management

System management directly supports the Bay Command Console (command line interface), HTTP-based, SNMPbased, and the Technican's Interface for router configuration (static and dynamic), monitoring, and management services. Depending on the service, these can be accessed out-of-band, through a local console or modem connection or in-band through a telnet connection. The Bay Command Console (BCC) is a terminal-based (TTY-compatible) tool that enables device configuration and maintenance. The BCC addresses customer requirements to provide a complete, easy-to-use, and efficient management interface. The BCC provides a simplified, English wordstyle command set. The BCC provides an integrated collection of tools for effective configuration, monitoring, and debugging of a network device. The BCC allows you to enter Technician Interface commands and scripts at the BCC command line prompt. The BCC provides access to, and manipulation of, the Nortel Networks router MIB. The BCC is accessed through the terminal-based Technician Interface (TI). The Technican Interface tool enables basic configuration and maintenance. The Technician Interface is based on a simple command line interpreter that supports SNMP-based access to the Management Information Base (MIB), displays event logs, and supports file system management and other administrative commands.

Table 2: Nortel Networks ARN specifications

Technical specifications		
Architecture	 Base module us Two adapter m One expansion Two data collect 	sing Motorola MC68040 microprocessor odules per base module module per base module tion modules—one per base module and one per expansion module
Connectivity	 Ethernet (15-pin Token Ring (9-p 10/100Base-TX (10) Serial (44-pin: R ISDN BRI S/T (RJ ISDN BRI U (RJ-4) 56/64-kbps DSU T1/FT1 DSU/CSU E1/FE1 Adapter I E1/FE1 Adapter I V.34 Modem (RJ 	a AUI connector, RJ-45) pin AU connector) (RJ-45) AS-449/422, RS-232, RS-530, V.28, V.35, X.21) (-45) H5: integral NT1) J/CSU (RJ-45) J Adapter Module (RJ-45) Module (RJ-45) Module (BNC) I-45)
Packaging	Type AC voltage Wall receptacle DC voltage - Input - Input Height Width Depth Weight	Tabletop/Wall-Mount/Rack-Mount 100/240 VAC at 1.0 A maximum NEMA 5-15R (100/240 VAC) (for use in North America) Voltage -48 to 60.7 VDC (±20%) Current 1.5 A max.at -38 VDC 2.80 in. (7.12 cm) 17.25 in. (43.84 cm) 12.50 in. (31.77 cm) 15 lb (6.80 kg)
Environmental and regulatory	Altitude Humidity Temperature Safety RFI/EMI	0 to 8000 ft (0 – 2400 m) 10% to 90% (noncondensing) 32° to 122° F (0° to 50° C) UL 1950, TUV EN60 950, CSA 22.2 950 FCC Part 15, VDE 0878, Limit B, CISPR 22B

Functionality and availability

Feature	IP access	Remote office	Corporate
BayRS options			
Network protocols			
- IP	•	•	•
- Novell IPX		•	•
- AppleTalk Phase2		•	•
- DECnet Phase IV			•
- Banyan VINES			•
- OSI			•
- Xerox XNS			•
IBM integration			
Source Route Bridge	•	•	•
LAN Network Manager Agent		•	•
Data Link Switching for Ethernet			
and Token Ring	•	•	
Data Link Switching for SDLC		•	•
Transparent Sync Pass-Through	•	•	•
BSC Pass-Through		•	•
APPN			•
Bridging			
Transparent (Ethernet)	•	•	•
Translation Bridge Ethernet/Token Ring	•	•	•
Native Mode LAN (NML)	•	•	•
Wide Area Networking			
HDLC Encapsulation	•	•	•
РРР	•	•	•
Frame Relay	•	•	•
SMDS	•	•	•
X.25 (including IPEX)	•	•	•
AT DXI	•	•	•
Dial Backup	•	•	•
Bandwidth-on-Demand	•	•	•
Dial-on-Demand	•	•	•
Traffic management			
Data Compression	•	•	•
DiffServ Queue Management Services	•	•	•
Traffic Prioritization	•	•	•
Uniform Traffic Filters	•	•	•
Multiline Circuits	•	•	•
Dial Optimized Routing	•	•	•
Node management			
EZ Install/EZ Update	•	•	•
Dynamic Loader	•	•	•
RMON (requires DCM hardware option)	•	•	•

Ordering Information

Broker No. Description Ethemet Base Module Ethemet Base Module Ethemet Base Module CV1001003 ARN with one Ethemet interface and 16 MB DRAM memory (110/220 V) CV1001005 ARN with one Ethemet interface and 16 MB DRAM memory (110/220 V) CV1001006 DC ARN with one Ethemet interface and 16 MB DRAM memory CV1001007 DC ARN with one Ethemet interface and 16 MB DRAM memory CV1001008 DC ARN with one Ethemet interface and 16 MB DRAM memory CV1001010 DC ARN with one Ethemet interface and 32 MB DRAM memory (10/220 V) CV1001013 ARN with one 10/100Base-TX Ethernet Autosense interface and 16 MB DRAM memory (10/220 V) CV1001015 ARN with one 10/00Base-TX Ethernet interface and 32 MB DRAM memory (10/220 V) CV1001015 ARN with one 100Base-TX Ethernet interface and 32 MB DRAM memory (10/220 V) CV1001020 ARN with one 100Base-TX Ethernet interface and 32 MB DRAM memory (10/220 V) CV100103 ARN with one Token Ring interface and 16 MB DRAM memory (10/220 V) CV101003 ARN with one Token Ring interface and 3 MB DRAM memory (10/220 V) CV101003 ARN with one Token Ring interface and 16 MB DRAM memory (10/220 V) CV101003 ARN with one Token Ring interface and 16 MB DRAM memory (10/220 V)	Medal No.	Description
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CVID01008DL ARM with one Ethernet interface and 8 MB DAM memoryCVI00109DC ARM with one Ethernet interface and 32 MB DRAM memoryCVI00101DC ARM with one Ethernet interface and 32 MB DRAM memoryCVI001013ARN with one 10/100Base-TX Ethernet Autosense interface and 36 MB DRAM memory (110/220 V)CVI001014ARN with one 10/100Base-TX Ethernet Autosense interface and 16 MB DRAM memory (110/220 V)CVI001015ARN with one 10/100Base-TX Ethernet Autosense interface and 36 MB DRAM memory (110/220 V)CVI001016ARN with one 100Base-TX Fast Ethernet interface and 36 MB DRAM memory (110/220 V)CVI001020ARN with one 100Base-TX Fast Ethernet interface and 36 MB DRAM memory (110/220 V)CVI001020ARN with one 100Base-TX Fast Ethernet interface and 32 B DRAM memory (110/220 V)CVI001020ARN with one Token Ring interface and 6 MB DRAM memory (110/220 V)CVI01003ARN with one Token Ring interface and 36 MB DRAM memory (110/220 V)CVI01004ARN with one Token Ring interface and 32 MB DRAM memory (110/220 V)CVI01004ARN with one Token Ring interface and 36 MB DRAM memory (110/220 V)CVI01004ARN with one Token Ring interface and 36 MB DRAM memory (110/220 V)CVI01004ARN with one Token Ring interface and 32 MB DRAM memory (110/220 V)CVI01004SPST ModuleCV0004001Sibn BRI J (with NTI) Adapter ModuleCV0004002ISD BRI J (with NTI) Adapter ModuleCV0004003ISD NBRI U (with NTI) Adapter Module (North American only)CV000402X32 Module (RI-45)CV000402X32 Module (RI-45)CV000402EtyFEI Adapt	CV1001005	ARN with one Ethernet interface and 32 MB DRAM memory (110/220 V)
CVID01009DC ARN with one Ethermet interface and 15 MB DRAM memoryCVID01010DC ARN with one Ethermet interface and 32 MB DRAM memoryCVID01013ARN with one 10/100Base-TX Ethermet Autosense interface and 38 MB DRAM memory (110/220 V)CVID01014ARN with one 10/100Base-TX Ethermet Autosense interface and 32 MB DRAM memory (110/220 V)CVID01015ARN with one 10/100Base-TX Ethermet Autosense interface and 32 MB DRAM memory (110/220 V)CVID01018ARN with one 100Base-TX Ethermet Interface and 8 MB DRAM memory (110/220 V)CVID01019ARN with one 100Base-TX Ethermet interface and 32 B DRAM memory (110/220 V)CVID01020ARN with one 100Base-TX Fast Ethermet interface and 32 B DRAM memory (110/220 V)CVID01023ARN with one Token Ring interface and 4 MB DRAM memory (110/220 V)CVID01003ARN with one Token Ring interface and 4 MB DRAM memory (110/220 V)CVID01004ARN with one Token Ring interface and 32 MB DRAM memory (110/220 V)CVID01005ARN with one Token Ring interface and 32 MB DRAM memory (110/220 V)CVID01004Serial Adapter ModuleCV0004001Serial Adapter ModuleCV0004002ISDN BRI S/T (without NTI) Adapter ModuleCV0004003ISDN BRI U (with NTI) Adapter ModuleCV0004004S6/64K DSU/CSU Adapter ModuleCV0004024EV/FEI Adapter Module (North American only)CV0004025V34 Modem Adapter Module (North American only)CV0004026EV/FEI Adapter Module (North American only)CV0004027X55 PAM ModuleCV0004028EV/FEI Adapter Module (BNC)Expansion ModuleCV00040	CV1001008	DC ARN with one Ethernet interface and 8 MB DRAM memory
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	(e.g., 1, 2, etc.)	
Data Collection Module	Data Collection Module	
CV0004021 Ethernet RMON DCM—fits base module and/or expansion module	CV0004021	Ethernet RMON DCM—fits base module and/or expansion module
Console Modem Module	Console Modem Module	
CV0004020 V.34 Console Modern module (North American only)	CV0004020	V.34 Console Modem module (North American only)
Redundant Power Supply Unit	Redundant Power Supply Unit	
RPSU Redundant Power Supply Unit (low watt)	RPSU	Redundant Power Supply Unit (low watt)

HTTP-based monitoring

The embedded Web server complements and extends the functionality of existing SNMP-based and command line interfaces (CLIs) such as Site Manager and the TI/BCC. The HTTP-based interface allows authorized Web browsers to access device management information for monitoring and troubleshooting. Users can display event logs, support file system management, and other administrative commands. Users can directly access the BCC from their browser window to resolve configuration issues.

Ordering Note: Adapter modules, expansion module, and system software must be ordered separately for each ARN. Each ARN includes an installation manual, power cord, and console cable kit. The purchase of one complete set of Nortel Networks documentation (Router Installation Documents, Router Management Documents, and Technician's Interface and Hardware Documents) for each central site is recommended.

Acronym Glossary

APPN	Advanced Peer-to-Peer
	Networking
ARN	Advanced Remote Node
BayRS	Nortel Networks Routing
	Services
BCC	Bay Command Console
BRI	Basic Rate Interface
BSC	Binary Synchronous
	Communications
CLI	Command Line Interface
CSU	Channel Service Unit
DCM	Data Collection Module
DLSw	Data Link Switching
DR M	Dynamic Random Access
	Memory
DSU	Data Service Unit
IP	Internet Protocol

IPX	Internet Protocol Exchange
LN	Local Area Network
MIB	Management Information
	Base
NML	Native Mode L N
NT1	Network Termination 1
PPP	Point-to-Point Protocol
PTT	Public Telephone and
	Telegraph
RFC	Request For Comment
RMON	Remote Monitoring
RPSU	Redundant Power Supply Unit
SDLC	Synchronous Data Link Control
STP	Shielded Twisted Pair
TCP/IP	Transmission Control
	Protocol/Internet Protocol
UTP	Unshielded Twisted Pair
WN	Wide Area Network

NETWORKS

Nortel Networks is an industry leader and innovator focused on transforming how the world communicates and exchanges information. The company is supplying its service provider and enterprise customers with communications technology and infrastructure to enable value-added IP data, voice and multimedia services spanning Metro Networks, Wireless Networks, and Optical Long Haul Networks. As a global company, Nortel Networks does business in more than 150 countries. More information about Nortel Networks can be found on the web at:

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