4.2.6 Communications servers, routers, bridges, multiport ISDN LAN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:
Advanced Computer Communications 10261 Bubb Road Cupertino, CA 95014 (408) 864-0600 FAX: (408) 446-5234	Nile	Standalone, Multiprotocol, Remote Bridge/Router for TCP/IP, IPX, XNS, DecNet, AppleTalk
NI-1 Date: Not announced NI-2 Date: Not announced	Price: $3,750 - $5,050	Ports 3
Voice Interfaces: None	Data Interfaces: BRI-ISDN 4/16 Mb Token Ring 10 Base 2 10 Base 5 10 Base T V.35 RS-422/449 X-21 RS-232	Split and combine B channels? Yes Bonding? No ISDN Interface: S/T Power: 110/220 vac

Additional Features:

- Field replaceable LAN and WAN interfaces
- 1 or 2 WAN ports

Software/Operating Systems:

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4.2.6 Communications servers, routers, bridges, multiport LAN ISDN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:
Ascend Communications, Inc. 1275 Harbor Bay Parkway Alameda, CA 94501 (510) 769-6001	Pipeline Access Routers	• LAN-to-LAN routing • Telecommuting with Client-to-LAN routing • Remote access to corporate LAN
NI-1 Date: 11/92 NI-2 Date: 10/93	Price: Start at $3.3K	Ports T1/E1, 4 BRI/4 SW56 (2w & 4w) 1 BRI/SW56
Voice Interfaces: T1 Drop & Insert PRI to T1 conversion	Data Interfaces: RS-232	Split and combine B channels? Yes Bonding? Packet Inverse Multiplexing ISDN Interface: S/T Power: 90-130 VAC, 0.7-1.4 A, 220-240 VAC, 0.34-0.7 A, 47-63 Hz

Additional Features:

Five levels of security; integrated digital modems to support analog dial-in modems; optional Ethernet 10 BaseT hub; optional serial ports; SNMP, remote access, CDR, WAN loopback, usage capping

Software/Operating Systems:

Flash memory, Field upgradable

4.2.6 Communications servers, routers, bridges, multiport LAN ISDN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:
Ascend Communications, Inc. 1275 Harbor Bay Parkway Alameda, CA 94501 (510) 769-6001	Pipeline MAX	Bandwidth manager for data networking, PBX integration and videoconferencing; dial in WAN hub for telecommuting and remote access to Corp-LAN
NI-1 Date: N/A NI-2 Date: 10/93	Price: starts at $10K	Ports T1/E1, up to 4 PRI
Voice Interfaces: T1 Drop & Insert PRI to T1 conversion	Data Interfaces: RS-449 V.35 X.21	Split and combine B channels? Yes Bonding? Packet Inverse Multiplexing PRI ISDN Interface: Power: 90-130 VAC, 0.7-1.4 A, 220-240 VAC, 0.34-0.7 A, 47-63 Hz

Additional Features:

- LAN-to-LAN routing for TCP/IP
- Remote access routing functionality
- Call management - CDR (Call Detail Recording)
- Network Management - such as SNMP + WAN loopback
- Optional digital modems to support analog dial-in modems

Software/Operating Systems:

Flash memory, field upgradable

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4.2.6 Communications servers, routers, bridges, multiport ISDN LAN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:
Cisco Systems Inc. 1525 O'Brien Drive Menlo Park, CA 94025 Contact: Cisco Systems Inc. 415-326-1981 415-326-1989 (fax)	Cisco 2500 Models 2503	Multi-Protocol router Certified for use in Europe, Japan, North America, Australia
NI-1 Date: 1993 NI-2 Date: N/A	Price: $3195	Ports: 2 x serial, 1 BRI and Ethernet
Voice Interfaces: N/A	Data Interfaces: BRI, serial (V.35, RS-232, RS-449), Ethernet	Split and combine B channels? Split only Bonding? No ISDN Interface: BRI Power: 110/220 VAC

Additional Features:

- Support for multiple protocols, bridging, Dial on Demand Routing, Frame Relay, SMDS, X.25, Data Compression and Auto Install capability.

Software/Operating Systems:

- Proprietary

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4.2.6 Communications servers, routers, bridges, multiport ISDN LAN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:	
Cisco Systems Inc. 1525 O'Brien Drive Menlo Park, CA 94025 Contact: Cisco Systems Inc. 415-326-1981 415-326-1989 (fax)	Cisco 2500 Models 2504	Multi-Protocol router Certified for use in Europe, Japan, North America, Australia	
NI-1 Date: 1993 NI-2 Date: N/A	Price: $ 5,195	Ports	2 x serial, 1 BRI and Token Ring
Voice Interfaces: N/A	Data Interfaces: BRI, serial (V.35, RS-232, RS-449), Token Ring	Split and combine B channels?	Split only
		Bonding?	No
		ISDN Interface:	BRI
		Power:	110/220 VAC

Additional Features:

- Support for multiple protocols, bridging, Dial on Demand Routing, Frame Relay, SMDS, X.25, Data Compression and Auto Install capability.

Software/Operating Systems:

- Proprietary

4.2.6 Communications servers, routers, bridges, multiport ISDN LAN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:
Cisco Systems Inc. 1525 O'Brien Drive Menlo Park, CA 94025 Contact: Cisco Systems Inc. 415-326-1981 415-326-1989 (fax)	Cisco 3000 Models 3103	Multi-Protocol router Certified for use in Europe, Japan, North America, Australia
NI-1 Date: 1993 NI-2 Date: N/A	Price: $ 5,295	Ports: 1 BRI and Ethernet
Voice Interfaces: N/A	Data Interfaces: BRI, serial (V.35, RS-232, RS-449), Ethernet	Split and combine B channels? Split only Bonding? No ISDN Interface: BRI Power: 110/220 VAC

Additional Features:

- Support for multiple protocols, bridging, Dial on Demand Routing, Frame Relay, SMDS, X.25, Data Compression and Auto Install capability.

Software/Operating Systems:

- Proprietary

4.2.6 Communications servers, routers, bridges, multiport ISDN LAN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:
Cisco Systems Inc. 1525 O'Brien Drive Menlo Park, CA 94025 Contact: Cisco Systems Inc. 415-326-1981 415-326-1989 (fax)	Cisco 3000 Models 3104	Multi-Protocol router Certified for use in Europe, Japan, North America, Australia
NI-1 Date: 1993 NI-2 Date: N/A	Price: $ 5,795	Ports: 2 x serial, 1 BRI and Ethernet
Voice Interfaces: N/A	Data Interfaces: BRI, serial (V.35, RS-232, RS-449), Ethernet	Split and combine B channels? Split only Bonding? No ISDN Interface: BRI Power: 110/220 VAC

Additional Features:

- Support for multiple protocols, bridging, Dial on Demand Routing, Frame Relay, SMDS, X.25, Data Compression and Auto Install capability.

Software/Operating Systems:

- Proprietary

4.2.6 Communications servers, routers, bridges, multiport ISDN LAN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:
Cisco Systems Inc. 1525 O'Brien Drive Menlo Park, CA 94025 Contact: Cisco Systems Inc. 415-326-1981 415-326-1989 (fax)	Cisco 3000 Models 3204	Multi-Protocol router Certified for use in Europe, Japan, North America, Australia
NI-1 Date: 1993 NI-2 Date: N/A	Price: $ 6,995	Ports: 2 x serial, 1 BRI and Token Ring
Voice Interfaces: N/A	Data Interfaces: BRI, serial (V.35, RS-232, RS-449), Token Ring	Split and combine B channels? Split only Bonding? No ISDN Interface: BRI Power: 110/220 VAC

Additional Features:

- Support for multiple protocols, bridging, Dial on Demand Routing, Frame Relay, SMDS, X.25, Data Compression and Auto Install capability.

Software/Operating Systems:

- Proprietary

4.2.6 Communications servers, routers, bridges, multiport ISDN LAN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:
Connective Strategies, Inc. (CSI) 4500 Southgate Place, Ste. 100 Chantilly, VA 22021 (703) 802-0023	PRI-MPG™ Primary Rate Interface Multi-Protocol Gateway	LAN Router for remote user access
NI-1 Date: NI-2 Date: 1Q'94	Price: $30,985	Ports 1 to 4 PRIs
Voice Interfaces: None	Data Interfaces: Ethernet 10 Base 2 10 Base 5 Token Ring	Split and combine B channels? Yes Bonding? No ISDN Interface: 1 to 4 PRI Power: External

Additional Features:

- Hardware includes integrated floppy and hard disks, a 320 Mbps VME bus, one PRI port and one Ethernet or Token Ring port.
- A total of four PRI ports and two Ethernets or one Token Ring port can be supported.

Software/Operating Systems:

- IP router option allows remote users to access TCP/IP LANS - Novell, LAN Manager, NFS - at speeds up to 128 Kbps

PRI-MPG is a trademark of CSI

4.2.6 Communications servers, routers, bridges, multiport LAN ISDN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:
DigiBoard 6400 Flying Cloud Drive Eden Prairie, MN 55344 Jim Libersky 1-800-344-4273	DUAL IMAC	MAC Layer Ethernet Bridge Provides two connections to support four simultaneous calls, or provide a single 256 kbps channel
NI-1 Date: Now NI-2 Date: 1994	Price: $2795	Ports 2
Voice Interfaces:	Data Interfaces: AUI Port - Ethernet 10B2, 10B5	Split and combine B channels? Yes Bonding? No ISDN Interface: S/T (RJ-45) Power: External

Additional Features:

- SNMP MIB II
- Transparent Connection Management
- Remote Control Operation over Ethernet or ISDN
- Ethernet & ISDN protocol analyzer built in
- Compatible with any CCITT Certified Switch
- Inverse MUX all "B" channels and Data over Speech Bearer

Software/Operating Systems:

- Supports IPX/SPX, TCP/IP, NETBIOS, Appletalk, and all other Ethernet protocols

4.2.6 Communications servers, routers, bridges, multiport LAN ISDN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:
DigiBoard 6400 Flying Cloud Drive Eden Prairie, MN 55344 Jim Libersky 1-800-344-4273	PC IMAC/4	Multiport ISDN Network interface card/ communications hub. Installs in expansion slot of PC. Up to 5 cards can be installed in a single PC
NI-1 Date: Now NI-2 Date: 1994	Price: 1 ISDN Port $1195 2 ISDN Ports $1990 4 ISDN Ports $3980	Ports 1 to 4 ISDN Ports Field upgradable via snap-on IDP modules
Voice Interfaces:	Data Interfaces: RJ-45 (ISDN BRI)	Split and combine B channels? Yes Bonding? ISDN Interface: S/T RJ-45 Power: From Bus

Additional Features:

- Ethernet Protocol Analyzer built in
- Aggregates any number of channels among PC IMAC/4 cards in a PC--ideal for Multiline hunt groups
- Fits in one standard ISA/EISA expansion slot
- Uses both voice and/or data ISDN lines
- Link Optimization - Reduces line charges by up to 60%
- Field Upgradable from 1 BRI Line to 4 BRI Lines Per Card
- Multipoint

Software/Operating Systems:

- Novell 3.11 versions or higher
- NetWare MultiProtocol Router
- Windows NT (NDIS 3.0)
- Windows Remote Access Server

4.2.6 Communications servers, routers, bridges, multiport ISDN LAN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:
Engage Communication, Inc. 9053 Soquel Drive Aptos, CA 95003-4034 Mark Doyle (408) 688-1021	Express Router ISDN (Ethernet) Sync Router ISDN (Local Talk)	Wide Area Networking for Apple Talk & TCP/IP for Protocols Wide Area Networking of AppleTalk Protocols
NI-1 Date: Now NI-2 Date:	Price: $1925 to $2495	Ports: Two B Channels
Voice Interfaces: None	Data Interfaces: Ethernet Local Talk	Split and combine B channels? Yes Bonding? Yes ISDN Interface: S/T Power: 24 VAC

Additional Features:

- Icon based connectivity software

Software/Operating Systems:

- Apple Computer: Macintosh System
- Under Development: Windows & X/Unix

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4.2.6 Communications servers, routers, bridges, multiport ISDN LAN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:
Gandalf Systems Corp. Cherry Hill Industrial Center Building 9 Cherry Hill, NJ 08003 609 424-9400	Xpressway	Remote LAN Access concentrator for small office and telecommuting On demand LAN connectivity
NI-1 Date: Now NI-2 Date: June 94	Price: Base Unit with 8 BRI - $15K	Ports: Up to 32 BRI Up to 4 PRI
Voice Interfaces:	Data Interfaces: Ethernet Token Ring FDDI	Split and combine B channels? Yes Bonding? No ISDN Interface: S/T Power: External

Additional Features:

- LAN data compression up to 8:1
- CLID, CHAP, & call back security
- PPP protocol support
- hot swap modules
- optional redundancy

Software/Operating Systems:

- supports all LAN protocols
- SNMP management

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4.2.6 Communications servers, routers, bridges, multiport ISDN LAN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:	
Hewlett Packard, Inc. 19410 Homestead Road Cupertino, CA 95084 HP DIRECT (800) 637-7740	HP ISDN SERVER - Link to Router Upgrade (J2108A) Connects a TCP/IP LAN to an ISDN	TCP/IP Router • concentrates workstation & PC ISDN calls	
NI-1 Date: Now NI-2 Date:	Price:	Ports	1 to 3 BRIs
Voice Interfaces: N/A	Data Interfaces: One Ethernet (10 Base/2 or 10 Base/5)	Split and combine B channels?	Yes - up to 384
		Bonding?	No
		ISDN Interface:	S/T
		Power:	

Additional Features:

- Supports full duplex transmission over up to six B channels
- Channel allocation, dialing, call establishment and disconnection are automated and transparent to user and applications.
- Network security provided by accepting calls only from a list of authorized callers.
- Requires HP 9000 Series 700 and ISDN Link (J2109A) product.
- Compatible with <u>OST</u> client BRI PC products.

Software/Operating Systems:

4.2.6 Communications servers, routers, bridges, multiport ISDN LAN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:
International Business Machines, Inc. Research Triangle Park NC 27709 Walt Reston (919) 254-0434	IBM 3174 Establishment Controller Basic Rate Adapter Feature #3055	Adapter card for Estabishment Communication Controller
NI-1 Date: Not Announced NI-2 Date: Not Announced	Price: $5190	Ports 4
Voice Interfaces:	Data Interfaces: IDLC on B channels	Split and combine B channels? No Bonding? ISDN Interface: S/T Power: From Bus

Additional Features:

- Supports communication with PS/2's equipped with one of the two Coprocessors and ISDN Coprocessor Support Program Version 1.1, Version 1.1.1 or Version 1.2.
- Supports communication with appropriately equipped AS/400
- Supports ISDN Data Link Control (IDLC) on B channel
- Supports up to 8 remotes per adapter and up to 4 adapters per 3174

Software/Operating Systems:

4.2.6 Communications servers, routers, bridges, multiport ISDN LAN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:	
ISDN Systems Corporation (ISC) 8320 Old Courthouse Road Suite 203 Vienna, Virginia 22182 Jeff Milloy (703) 883-0933 FAX: (703) 883-8043	DYNA-BRIDGE		
NI-1 Date: Now NI-2 Date:	Price: $2,495	Ports	4
Voice Interfaces: 1 standard POTS (analog)	Data Interfaces: LAN Frame Relay ISDN (Basic Rate) Async	Split and combine B channels?	Yes
		Bonding?	Proprietary Bonding
		ISDN Interface:	2 B and D
		Power:	

Additional Features:

The DYNA-BRIDGE™ is the ideal solution for remote LAN access and LAN to LAN interconnection. DYNA-BRIDGE may be equipped with three ISDN BRI ports for up to six simultaneous connections. Dynamic Bandwidth Allocation provides on-demand, multiple B-channel assignment for applications requiring higher throughput than can be provisioned on a single channel.

Software/Operating Systems:

The DYNA-BRIDGE provides protocol transparency for operations in networks supporting OSI, XNS, TCP/IP, Decnet, Netware and others. Each packet is bridged or routed according to information contained in the MAC layer. The Spanning Tree Protocol provides a fault tolerant, plug-and-play solution for multi-vendor interoperability.

- Mgmt: SNMP, ISC configurations
- Futures: Token ring W/source routing

4.2.6 Communications servers, routers, bridges, multiport ISDN LAN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:
MPR Teltech Ltd 8999 Nelson Way Burnaby, BC Canada V5A 4B5 (604) 293-6047 FAX (604) 293-5787	OB-100	Communications server interfaces to SW 56/ISDN on the network side and to Ethernet on LAN side. Supports TCP/IP connectivity
NI-1 Date: Oct. 93 NI-2 Date:	Price:	Ports PRI 1-8 SW56, BRI 64/128 MODEM: V.32 BIS 14.4 Kbps
Voice Interfaces: None	Data Interfaces: Ethernet V. 35 RS 232	Split and combine B channels? 23 B+D N x 64 Bonding? No ISDN Interface: S/T Power: 110v @ 15A

Additional Features:

- LAN TCP/IP routing
- Network modem pool

Software/Operating Systems:

- UNIX, SVR3

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4.2.6 Communications servers, routers, bridges, multiport ISDN LAN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:
NCR Corporation Network Products Division 2700 Snelling Ave. North St. Paul, MN 55113-1784 Jerry Kemp (612) 638-7828	Primary Rate Interface for Comten Communications Processor	• Data Communication Controller (IBM-compatible Front End Processor) • Remote Concentrator/Processor • Gateway Processor
NI-1 Date: N/A NI-2 Date: 1Q94	Price: $5,000 - PRI Adapter $5,000 - Software	Ports: Multiple PRIs per system
Voice Interfaces: Not Applicable (Data Comm. Only)	Data Interfaces: • IBM Channel • Micro Channel Architecture (MCA) • LAPD • SDLC for ISDN	Split and combine B channels? No. 64 Kbps channels only Bonding? Not Applicable ISDN Interface: DS1, S/T or U, RJ45 Power: From Comten Comm Processor

Additional Features:

- Supports SDLC and X.25 over the B-channel.
- Supports Automatic Bandwidth Management (add/drop B-channels based on traffic loads).
- Will support TCP/IP over the B channel in 4Q93.
- Supports NCP leased and switched terminal lines.
- Supports NCP leased and switched trunk lines between Comtens, or Comtens and IBM 3745 with terminal adapter.
- Supports CNS (a proprietary Comten trunking protocol available in addition to SNA Transmission Groups) leased trunk lines between Comten Communications Processors.
- Will support V.110 rate adaption in 4Q93.
- Supports Calling Party ID Security Screening

Software/Operating Systems:

The Comten runs under COS2 (Comten Operating System 2). The PRI Adapter runs under a UNIX-like operating system called Basic System Services 2 (BSS2).

4.2.6 Communications servers, routers, bridges, multiport LAN ISDN adapters

COMPANY NAME	PRODUCT NAME	FUNCTIONS:	
Network Express, Inc. 4251 Plymouth Road Ann Arbor, MI 48105 Cindy Dames (313) 761-5005	NE ISDN InterHub	1. Concentrator for multiple remote LAN Adapter devices for WAN access to central LAN. 2. Router 3. Bridge 4. Inverse Multiplexer	
NI-1 Date: March 1, 1993 NI-2 Date: Unknown	Price: $9,600 - $27,400	Ports	Up to: 16 - Basic Rate lines 2 - Primary Rate lines
Voice Interfaces:	Data Interfaces: V.35, RS232, Ethernet, 802.3	Split and combine B channels?	Yes, up to remote devices capability to combine bandwidth.
	Circuit-data Interfaces Up to 32 simultaneous channels consisting of 56 and 64 Kbps	Bonding?	No
		ISDN Interface:	S/T
		Power:	External

Additional Features:

- Calls-on Demand, Self initializing, auto answer
- Interoperates with remote ISDN networking products
- Consolidates multiple sites on a single primary rate ISDN line, or up to 16 Basic Rate lines at Central site.
- Supports 56 Kbps and 64 Kbps to remote locations
- Multi-point, multi-connection
- Central site management of multiple incoming connections in a hunt group with a single high performance device
- Allows multiple protocols to share access to central LAN
- ISDN routing and bridging capability

Software/Operating Systems:

- Novell Netware
- Banyan
- UNIX
- Apple
- Windows 3.0

4.2.6 Communications servers, routers, bridges, multiport LAN ISDN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:
Network Express, Inc. 4251 Plymouth Road Ann Arbor, MI 48105 Cindy Dames (313) 761-5005	NE ISDN Router	1. Router 2. Bridge 3. Inverse Multiplexer
NI-1 Date: March 1, 1993 NI-2 Date: Unknown	Price: $6,500 - $22,100	Ports: Up to: 16 - Basic Rate lines 2 - Primary Rate lines
Voice Interfaces:	Data Interfaces: V.35, RS232, Ethernet, 802.3 Circuit-data Interfaces Up to 32 simultaneous channels consisting of 56, 64, 384 Kbps.	Split and combine B channels? Yes, Nx64, H0 (384kbps), 23B+D Bonding? No ISDN Interface: S/T Power: External

Additional Features:

- Inverse Multiplexing
- ISDN routing
- Customer Filters
- Calls-on Demand
- Self initializing
- Auto answer and Originates
- Stores calling number information and MAC address
- Data over speech bearer
- Works with either 1 or 2 DNs
- Works with custom AT&T and Northern Telecom ISDN
- Has not been tested for NI-1 conformance
- Multi-point, multi-connection

Software/Operating Systems:

- Novell Netware
- Banyan
- UNIX
- Apple
- Windows 3.0

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4.2.6 Communications servers, routers, bridges, multiport LAN ISDN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:
OST, Inc. 14225 Sullyfield Circle Chantilly, Virginia 22021 (403) 817-0400 FAX: (703) 817-0402	Magellan	Standalone TCP/IP Router LAN to WAN
NI-1 Date: Now NI-2 Date:	Price: from $3,995	Ports • Ethernet:10B2 or 10BT:10T2 • WAN: 1 to 3 ISDN BRI
Voice Interfaces: N/A	Data Interfaces: Ethernet ISDN BRI X.25	Split and combine B channels? No Bonding? No ISDN Interface: Up to 3 BRI Power: stand alone unit with its own power supply

Additional Features:

- Easy to use Windows-like user interface
- Complete Log activity and statistics
- SNMP agent
- Supports connections to X.25 networks
- Remote configurations across WAN
- IPX routing (1Q94)

Software/Operating Systems:

- Proprietary

4.2.6 Communications servers, routers, bridges, multiport LAN ISDN Bridges

COMPANY NAME	PRODUCT NAME	FUNCTIONS:
Racal-Datacom, Inc. 1601 North Harrison Parkway Sunrise, FL 33323 Heather Vaughn (305) 846-6762	Excalibur Network Access Resource (ENAR)	Communications server
NI-1 Date: 1Q94 NI-2 Date: 1994	Price:	Ports: Expandable WAN ports 2 LAN ports
Voice Interfaces: None	Data Interfaces: T-1/E-1 PRI X.25 Ethernet Token Ring	Split and combine B channels? Phase 2 Bonding? Yes, Mode 2 ISDN Interface: "U" interface Power: External

Additional Features:

- High end security features
- Network management
- Integrated X.25 PAD

Software/Operating Systems: