Workgroup Products
BayStack
Instant Internet

Easy Installation

User Internet Access Controls

Built-In Firewall

Full-range of Connectivity Options

The BayStack Instant Internet™ product line from Bay Networks, a Nortel Networks Business, is a plug-and-play solution that connects a business or school LAN to the Internet while providing a unique, automated way to easily manage and control Internet access and ISP costs.

PRODUCT CHOICES FOR YOUR BUSINESS NEEDS

Choose the Instant Internet unit that's right for you. The Instant Internet 400 provides medium and large businesses with high-speed bandwidth choices plus a Web cache for optimized bandwidth utilization. The Instant Internet 100 is a smaller, more affordable unit designed specifically for small businesses with lighter bandwidth requirements. All of the award-winning features of Instant Internet, including plug-and-play installation, firewall security, and the management of users' Internet access, are common to both units.

WIDE ARRAY OF CONNECTIVITY OPTIONS

A full range of high-speed Internet connectivity options is available to accommodate your bandwidth needs as well as the requirements of your Internet Service Provider. All you have to do is snap in the RJ connector to the built-in analog, ISDN, T1, or Ethernet interfaces.

The Instant Internet 100 supports analog (33.6K, 56K x2/ V.90, and K56flex) and ISDN connections (with or without built-in NT1) over 10BASE-T Ethernet.

The Instant Internet 400 additionally supports 56K DDS, V.35, X.21, and fractional or even full T1 as well as both autosensing 10/100 Ethernet or 4/16 Token Ring.

Both the Instant Internet 100 and 400 offer a dual Ethernet configuration for connecting to the Internet via a cable modem, external xDSL modem, or a router.

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HARDWARE/SOFTWARE BENEFITS

Easy Installation in Minutes

Simply plug in three cables — power, network cable, and Internet access line — and you're done. The rest of the setup takes place across the PC LAN in seconds from any existing workstation. There's no need to take down the network and nothing to reconfigure.

Instant Internet allows users on IP-only LANs to immediately begin accessing the Internet without changing their workstation configuration and without changing the network's router configurations. Installation is nondisruptive and takes literally just a few minutes. Even existing subnetted intranets won't have to be changed or disrupted — no matter what the IP address scheme and whether or not it is involved in an existing WAN. And, you can automatically configure the IP clients from the DHCP server within the Instant Internet unit.

For IPX-only LANs, users can access the Internet from anywhere on the network without adding IP to their workstations. They won't have to reconfigure, reboot, or stop existing applications during the installation.

For networks migrating from IPX to IP, Instant Internet provides a smooth transition. Instant Internet will serve both IP and IPX users simultaneously in LANs making the conversion.

The connection from the Instant Internet unit to the Internet service provider is handled automatically. Your ISP is likely to be one of the hundreds listed in the pull-down list of preconfigured ISPs. Make your selection and then simply enter the user-ID, password, and telephone number given to you when you sign up for dial-up service. Even an ordinarily complicated T1 connection requires just five or six simple entries.

Table 1:   Instant Internet 100 and Instant Internet 400 Product Differentiation.

	Instant Internet 100	Instant Internet 400
Internet Access	Up to 33.6Kflex, 56K x2/V.90, 64/128K ISDN (with or without built-in NT1)	33.6Kflex, 56K x2/V.90, 64/128K ISDN, V.35, X.21, 56K DDS, T1 (with or without CSU/DSU)
Type of LAN	Small	Medium to Large
Chassis	6.75 x 2.25 x 10.25 in.	15.5 x 3.5 x 17 in.
Topologies Supported	10BASE-T Ethernet	10/100 Autosensing Ethernet 4/16 Autosensing Token Ring (option)
Router Support	Yes	Yes
Built-in Firewall	Yes	Yes
Management Tools	Yes	Yes
Clients Supported	IP, IPX, or a mix of both	IP, IPX, or a mix of both
NAT Support	Yes	Yes
DHCP Support	Yes	Yes
Web Caching	No	Yes
VPN Support	Yes	Yes

Built-In Firewall
Keeps Your LAN Safe

Instant Internet provides rock-solid security. It ensures high-end firewall protection through any of its four proxies (SOCKS, HTTP, DNS and NAT) used singly or in combination. Your network stays private and secure — in fact, its invisible to the Internet.

User Access Controls
Ensure Employee Productivity

Instant Internet makes it easy for businesses and schools to control user Internet access. Instant Internet automatically imports user and group information from existing NT or NetWare directories. There's no need to reenter the data.

By dragging colors through a grid of the 7-day, 24-hour week, the times and days of Internet access can be controlled for everyone, or for just certain groups or individuals. This tool eliminates unnecessary access costs accumulated by tickers and broadcast applications that users leave running all night.

Using simple wildcard and/or partial names, Instant Internet's management tools can block or allow specific Web sites, domains, or newsgroup subtrees for everyone or just particular groups or users from the directory. Through the power of inheritance, Instant Internet tracks users as they come and go in the LAN directory and assigns new users predetermined group access controls.

Logging Tools Track Activity

Sophisticated logging tools of Instant Internet are extremely valuable in business and education environments. Each time-stamped entry shows who went where, and what application was used. The names are produced from the existing LAN directory. Instant Internet identifies the sites by looking up the Internet addresses and producing the cross-referenced Internet domain names. By identifying the port number, Instant Internet knows the applications used by employees or students. Instant Internet automatically captures all of this information and produces an easily scanned file available to the administrator to print or import into Excel or a database.

Use the Internet as a
Virtual Private Network (VPN)

Communicate privately and securely across the Internet using Instant Internet VPN support. Instant Internet allows IPSec ESP tunneling through NAT, providing end-to-end encryption for sensitive office-to-office traffic when using a VPN client, such as the one provided with the Bay Networks Contivity™ product.

Web Caching Saves
Money and Bandwidth

The Instant Internet 400, with its 64 MB of cache RAM, can increase the apparent bandwidth to the Internet. Because users frequently access the same Web sites repeatedly, caching can supply many accessed Web pages directly from the locally stored cache. The Instant Internet transparent proxy protocol converter permits the use of a proxy cache without the ordinarily burdensome task of reconfiguring all workstation browsers. The proxy cache can be external or you can use the one built into the Instant Internet 400.

Both businesses and schools can greatly benefit from Web caching. For example, an entire classroom of PCs can access a single Web page within seconds after its first access by a teacher or student. And, businesses that frequently access sites such as the corporate intranet can load these sites into cache at the beginning of the work day and save precious bandwidth as well as access time.

You Won't Outgrow
Instant Internet

The proxy and routing engines all operate simultaneously and include full Ethernet speed policy-filtered firewall routing (with or without NAT) allowing seamless transitions to any future connectivity options.

Year 2000 Compliant

The BayStack™ Instant Internet products have been tested and certified Year 2000 compliant by Bay Networks according to the test cases identified in the Bay Networks Year 2000 Test Strategy/Plan. (See http://www.baynetworks.com/year2000 for more details.)

THE FASTEST, EASIEST, AND SAFEST WAY TO CONNECT YOUR LAN TO THE INTERNET

Instant Internet provides a wide range of connectivity options, essential management tools, and a totally secure network environment. These features, combined with its quick installation and ease of use, make Instant Internet the fastest, easiest, and safest way to connect your LAN to the Internet.

HARDWARE SPECIFICATIONS

Table 2:   Bay Networks Instant Internet 100 Specifications.

Size (W x H x D)	2.25 x 6.75 x 10.25 in. (26 x 17 x 5.5 cm.)
Weight	2.2 lb (1 kg)
Environmental	5% to 95% relative humidity, noncondensing; 41°F to 86°F (5°C to 30°C)
Power Supply	100-240 VAC, 50-60 Hz, 20 Watts (max)
Topology	10 Mbps Ethernet
Modem	33.6K (V.34, V.FC, V.42bis) or 56K modem (modem speeds vary by country)
Agency Approvals	UL, CUL, CE, and FCC/FTZ Class-A certified

Table 3:   Bay Networks Instant Internet 400 Specifications.

Size (W x H x D)	3.5 x 15.5 x 17 in. (39 x 43 x 8.7 cm.)
Weight	13 lb (5.9 kg)
Environmental	20% to 80% relative humidity, noncondensing; 50°F to 104°F (10°C to 40°C)
Power Supply	100-240 VAC, 50-60 Hz, 60 Watts (max)
Topology	10/100 Mbps Ethernet, Token Ring (4/16)
Modem	33.6K (V.34, V.FC, V.42bis) or 56K modem (modem speeds vary by country); ISDN 64K/128K (synchronous PPP); 56K DDS, T1, V.35, X.21 (synchronous PPP, Frame Relay)
Agency Approvals	UL, CUL, CE, and FCC/FTZ Class-A certified

ADDITIONAL REQUIREMENTS

Instant Internet requires an Internet access account supplied by an Internet Service Provider (ISP).

PRODUCT AWARDS

ORDERING INFORMATION

Table 4:   BayStack Instant Internet 100 Ordering Information.

Model Number	Description
CQ1001101	Single Ethernet connector with ISDN, North America only (includes NT1)
CQ1001102	Single Ethernet connector with ISDN (does not include NT1)
CQ1001103	Dual Ethernet with no internal modem
CQ1001104	Single Ethernet connector with 33.6K modem
CQ1001109	Single Ethernet connector with 56Kflex technology
CQ1001110	Single Ethernet connector with 56K x2 technology

Table 5:   BayStack Instant Internet 400 Ordering Information.

Model Number	Description
	Modems, Domestic (USA & Canada) Version
CQ1001087	Dual Ethernet with analog modem
CQ1001088	Single Token Ring and Ethernet with analog modem
	ISDN Domestic (USA & Canada), includes NT1
CQ1001090	Dual Ethernet with ISDN (with NT1)
CQ1001091	Single Token Ring and Ethernet with ISDN (with NT1)
	ISDN International Version without NT1
CQ1001093	Dual Ethernet with ISDN (without NT1)
CQ1001094	Single Token Ring and Ethernet with ISDN
	Dual LAN Connections (for use with external routers)
CQ1001084	Dual Ethernet with no internal modem
CQ1001085	Dual Token Ring (16/16) and Ethernet with no internal modem
	Leased Line Connections
CQ1001078	Dual Ethernet with T1 and integrated CSU/DSU
CQ1001079	Token Ring and Ethernet with T1 and integrated CSU/DSU
CQ1001080	Dual Ethernet with internal DDS
CQ1001081	Token Ring and Ethernet with internal DDS
CQ1001082	Dual Ethernet with V.35
CQ1001083	Token Ring and Ethernet with V.35
CQ1001098	Dual Ethernet with X.21
CQ1001099	Token Ring and Ethernet with X.21

ACRONYM GLOSSARY

CE	European Conformity		LAN	Local Area Network
CUL	Canadian Underwriters Lab		NAT	Network Address Translation
DDS	Dataphone Digital Service		NT1	Network Terminator 1
DHCP	Dynamic Host Configuration Protocol		PC	Personal Computer
DNS	Domain Name System		PPP	Point-to-Point Protocol
DSU	Digital Service Unit		RAM	Random Access Memory
ESP	Encapsulating Security Payload		SOCKS	Socket Secure (Server) [Internet]
FCC	Federal Communications Commission		T1	Transmission 1
FTZ	Foreign Trade Zone		UL	Underwriters Lab
HTTP	Hypertext Transfer Protocol		VAC	Volts Alternating Current
IP	Internet Protocol		VPN	Virtual Private Network
IPSec	Internet Protocol Security		WAN	Wide Area Network
IPX	Internetwork Packet Exchange		xDSL	Digital Subscriber Line of any type
ISDN	Integrated Services Digital Network			
ISP	Internet Service Provider			

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