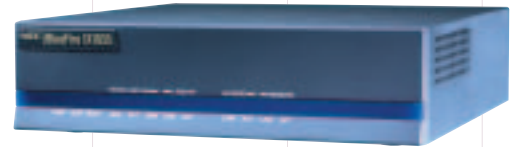# UNIVERGE™ IX1035

Secure and Reliable Remote Communications

An organization's branch offices can be as vital to its business objectives as its central site, so it is essential that workers in these remote facilities have efficient, cost-effective and secure communications with the corporate center. NEC's UNIVERGE IX1035

IX1035

provides an ideal all-in-one solution for branch offices requiring a flexible T-1 connection to the corporate headquarters. This access solution features an easy-to-configure compact router that eliminates the need for an external CSU/DSU or modem. It also has two Ethernet ports: a 10/100 Mbps port for the branch office LAN and a 10 Mbps port for connection to a DSL router or cable modem.

Maximum Security

Today more than ever, organizations must assure the privacy of communications transactions. The UNIVERGE IX1035 offers hardware-based support of the IP Security Protocol (IPSec). It provides security for the exchange of mission-critical business information by allowing packet-by-packet encryption and authentication. The hardware-based encryption enhances performance, an especially significant factor for VPNs that need to converge delay-sensitive voice traffic with data. The unit also has a built-in firewall that provides Stateful Packet Inspection.

Survivability

Companies today cannot afford to lose communications with their branch offices, even temporarily. One of the major concerns of remote office extensibility is maintaining secondary connectivity if the primary (T-1) link is lost. Accordingly, the UNIVERGE IX1035 features a built-in ISDN BRI port for automatic dial back-up and restoration should the T-1 connection temporarily fail. The fail-over call can be routed back through the ISP network or through the PSTN to a PRI port on the central-site router. Additional survivability can be obtained by using the unit's 10 Mbps Ethernet port to establish another back-up connection through the ISP's DSL or cable modem service.

Flexible T-1 Port

Business requirements and available services can vary from branch office to branch office. The UNIVERGE IX1035 was designed so that its T-1 port can be customized to support the exact business needs of the remote office. It can be provisioned as full or fractional service while its wide area traffic can be formatted as either Frame Relay or Point-to-Point Protocol (PPP), thus supporting a broad range of wide area connectivity options.

Enhanced QoS

Many businesses are beginning to take advantage of the cost-savings associated with integrating their voice and data networks. The UNIVERGE IX1035 supports Quality of Service (QoS) to assure the priority of voice traffic in a converged network. The QoS was designed to work even when the payload is encrypted, thereby facilitating the timely delivery of delay-sensitive voice packets in a secure environment.

Empowered by Innovation

NEC

UNIVERGE IX1035 Router

Secure and Reliable Remote Communications

IPv4 to IPv6 Migration

Like other IX Series routers, the UNIVERGE IX1035 supports both IPv4 and IPv6, providing an easy migration path should you wish to move to IPv6. The UNIVERGE IX1035 IPv4 and IPv6/dual-stack encoding supports both tunneling and two-way translation for more efficient packet processing.
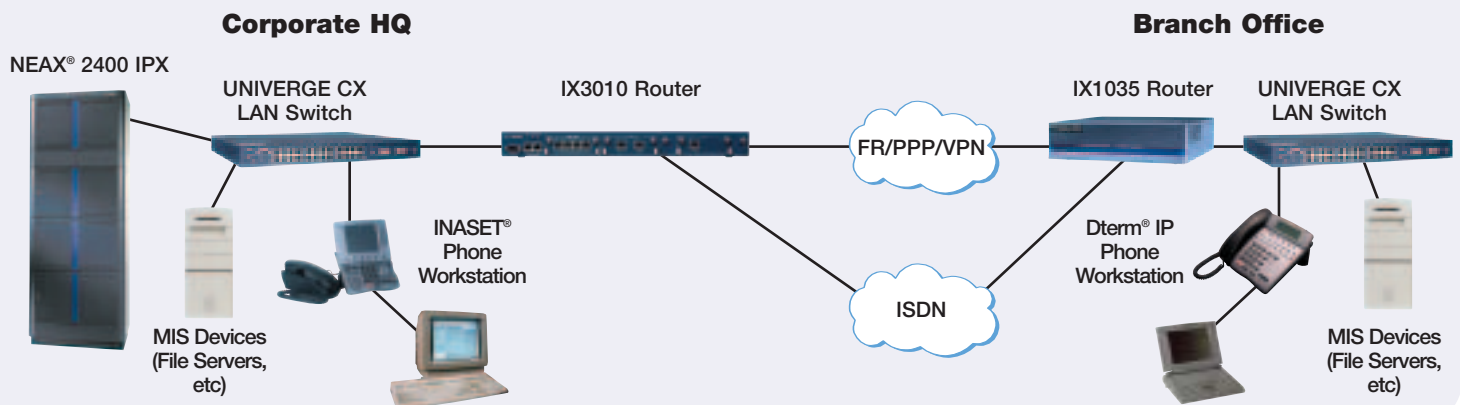
IX1035 Overview

- One-port T1
- Two-port Ethernet
- One ISDN/BRI
- Built-in DSU/CSU for T-1 port

- Hardware-based IPSec (32 tunnels) (IX Advanced License Key required)
- Enhanced QoS for Convergence
- Virtual Private Network Support
- IPv4 and IPv6

- Built-in Firewall
- Multiple Routing Protocols
- SNMP MIBS *Not available in initial release

Specifications

Interfaces Supported	T-1 (Frame Relay, PPP), 10/100BASE-TX Ethernet, ISDN-BRI(U)
IP Version	IPv4, IPv6
Routing Protocols	RIP/RIP2, RIPng, BGP4, OSPFv2, Policy Routing, VRRP, NAT/NAPT
Quality of Service	Class-based queue priority control (CBQ), Priority queuing (PQ), IP Precedence, DiffServ (DSCP manipulation), Multiple-class shaping and transmission delay control, 802.1p, 802.1Q
High-Speed	Filtering, NAT/NAPT, Tunneling
Forwarding	PPPoE, VLAN Tagging, IPSec
Enhanced Security	Packet filter allows packet-by-packet access restriction IP Security Protocol (IPSec)

– Packet-by-packet encryption, authentication and IPSec/GRE Tunneling
– Works in dynamic addressing environment
Encryption: DES, 3DES and AES (128-bit only)
Authentication: MD5, SHA-1
Key Management: IKE
Built-in Firewall: Stateful Packet Inspection

Dimensions	210 mm (8.3 in) W x 220 mm (8.66 in) D x 60 mm (2.36 in) H
Weight	1.5 kilograms (3.31 lbs)
AC Power	90 to 264 VAC (50/60 Hz)
Environmental	Temperature: 5-40° C with 10-80% non-condensing
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Environmental	Temperature: 5-40° C with 10-80% non-condensing

UNIVERGE IX1035 Router Supporting Regional Branch Office Access to HQ

Corporate HQ

Branch Office

NEAX® 2400 IPX

UNIVERGE CX LAN Switch

IX3010 Router

FR/PPP/VPN

IX1035 Router

UNIVERGE CX LAN Switch

INASET® Phone Workstation

ISDN

Dterm® IP Phone Workstation

MIS Devices (File Servers, etc)

MIS Devices (File Servers, etc)

To find out more about the UNIVERGE IX1035 router or to inquire about NEC's powerful and versatile data networking solutions, visit our website at www.necunifiedsolutions.com.

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