UNIVERGE™ is NEC’s IP architecture for unifying multimedia networks while enabling robust business solutions. UNIVERGE is an open and standards-based IP architecture, ensuring interoperability with other broadband media, IT equipment and business applications. It also enables seamless and mobile communication in a multi-network environment.
The NEAX2400 IPX provides a unique set of benefits to users seeking an advanced information system that is both highly flexible and highly reliable. Through the use of state-of-the-art computer-controlled telecommunications technology, the NEAX2400 IPX is able to offer a wide range of features:

**Scalability:** Current NEC customers can deploy IP capability with simple upgrades, and our fully IP-ready communications systems are ideal for new customers.

**Fully Featured System:** NEAX2400 IPX station users have access to more than 780 service features that enhance productivity, reduce costs and improve communication efficiency.

**Flexible Line Size:** The modular design of the NEAX2400 IPX enables the growth of the system in a cost-effective manner as your requirements demand.

**Flexible Configuration:** Customers can use the combination of TDM and IP lines that best suits their communications environment.

**Flexible Numbering Plan:** The use of a flexible numbering assignment meets all forms of IP network integration services.

**Cost Controls:** Features such as Least Cost Routing (LCR), Class of Service (COS) and Station Message Detail Recording (SMDR) allow you to control and even reduce costs.

**Peer-to-Peer IP Connectivity**

The NEAX2400 IPX can support IP switching (peer-to-peer), TDM switching, and IP/TDM switching. Peer-to-peer IP connectivity offers benefits such as:

- **High-quality VoIP communications with full telephony services**
- **Automatic Terminal Registration**
- **High reliability and security**

Proprietary operating system enhances operational reliability and security.

**NEAX2400 IPX System Overview**

The NEAX2400 IPX system is designed to meet the needs of businesses of all sizes. It offers a wide range of features and options to help you communicate more effectively and efficiently. Whether you’re looking for a simple solution or a more complex system, the NEAX2400 IPX has you covered.

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Networking Solutions
That Work for Your Business

New answers for an ever-evolving business environment.
Multi-service networking — the running of data, voice, video and other information over a common IP network — is the future of communications. NEC’s IP Telephony solutions have been created in direct response to the growing demand for these capabilities.

NEAX2400 IPX Core Networking Features
Private Networking
• Fusion Call Control Signaling (FCCS) enables individual NEAX2400 IPX nodes dispersed within a network to operate as if each of them is part of a single integrated PBX system.
• Common Channel Interoffice Signaling (CCIS) makes it possible for multi-site systems to work together as if they were a single system.
• IP terminals at remote offices can operate as internal extensions connected to a WAN.

Public Connectivity
• Integrated Services Digital Network (ISDN)
• Q-SIG (Circuit-Switched Basic Call — ETSI Version)
• Digital Multi-Frequency Compelled Signaling R2 (MFC-R2)

NEAX Enterprise IP Network

CTI Solutions
for Office Applications

NEC’s NEAX family of telecommunications systems offers rich functionality and valuable benefits to today’s information-driven businesses. By providing an OAI (Open Application Interface) between external processors, such as mainframes and personal computers, with the internal processors of NEC’s voice platforms, NEC brings control of telephony features and related call information right to the user’s desktop.

NEAX2400 IPX’s Wireless Communications System
- NEAX2400 IPX’s Wireless Communications System affords invaluable mobility, for enhanced productivity and efficiency.
- NEAX2400 IPX nodes can be deployed throughout an organization, enabling employees to stay in constant touch with customers and colleagues.
- NEC’s NEAX2400 IPX features a built-in wireless communications system, which can support a maximum of 4,000 users in the Multi-IMG configuration.

Office Application Overview

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**Keep Your Network Running Smoothly**

The NEAX2400 IPX's intelligent design greatly simplifies system operation, administration and maintenance. The NEAX2400 IPX is designed to facilitate network management of operation and maintenance functions, and to enable maintenance personnel to isolate and correct problems rapidly — even for remote locations — maximizing system uptime.

**Station Message Detail Record (SMDR)**

The SMDR allows the NEAX2400 IPX to record detailed call information on all outgoing and incoming calls and route this information through an RS-232C/Ethernet interface. SMDR Printout sends call information such as calling station number, dialed number, call start time/date and call duration to an asynchronous ASCII printer equipped with an RS-232C interface, on a per-call basis.

**Maintenance**

The NEAX2400 IPX's modular system design and sophisticated software diagnostics enable maintenance personnel to isolate and correct problems in a minimal amount of time. They can interface with the system using Maintenance Administration Terminal (MAT) on-site and/or from a remote site to determine overall system status.

**Maintenance Administration Terminal (MAT)**

The MAT is a PC-based tool which provides support for NEAX2400 IPX system management, and is compatible with Windows98/NT/Me/2000-based PCs (Windows2000 recommended). The following tasks can be performed via the MAT (password available):

- System/office data management (move, add, change)
- System/office data backup (floppy disk)
- Traffic data display
- System message display
- System diagnostics

The NEAX2400 IPX provides sophisticated traffic management reports to be used for overall analysis of system performance. The MAT functions as a common interface, and is used to request and display report type, measurement period and amount of time between reports.

**Web MAT: Dterm Assistant**

Web MAT is a Web browser-based maintenance tool which allows the user to easily change the extension number of various key functions.

**Centralized Maintenance Administration Terminal (C-MAT)**

The C-MAT is connected to one of the NEAX2400 IPX systems within an FCCS network. The C-MAT can access and indicate the status of all systems in the network on its LCD display, and it can also perform the same functions handled by a standard MAT.

**Remote Maintenance**

All maintenance administration functions can be accomplished by a remotely-located MAT over a Public Switched Telephone Network (PSTN) on a dial-up or private network basis. Tasks such as system diagnosis, automatic alarm reporting, fault detection and database reconstruction can be performed from remote locations (ex. Maintenance Centers, Technical Assistance Service Centers).

**Traffic Measurement**

The NEAX2400 IPX diagnostic software constantly monitors the operating system and automatically generates supervision and fault information on overall system performance to the MAT and related supporting hardware. The maintenance management system interacts with the System Processors, switching network interface section and various other sections — including Power, Fuse and Temperature — and reports fault indications.

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**Turn your Desktop Into a Communication Station**

The DSS/BLF (Direct Station Selection/Busy Lamp Field) Console, and offers important functions such as a 60-key pad, extension status indicator lamp and one-touch calling.

The flexible Attendant Terminal makes use of The Integrated Attendant Console (IAC), designed for compatibility with the NEAX PABX family, is a WindowsNT-based operator console that provides the capability to operate as an Attendant Console and a Directory System.