

DSX

SIP TRUNKING, WIRELESS IP DECT, AND MORE



NEC

DSX



SOPHISTICATION SIMPLIFIED

Innovative NEC takes the lead with state-of-the-art innovations sure to make your business communications more efficient, profitable, and enjoyable. Stylish additions to any work environment, all DSX telephone models feature built-in speakerphone, two-position angle adjustment, and built-in wall mounting. Enhanced models also offer a backlit display and illuminated dial pad. Right out of the box, the system offers an innovative built-in Automated Attendant which can answer calls, play a greeting, and allow callers to directly dial extensions and departments without assistance. Also built-in is the ability to record a custom message for callers on hold.

Full-Featured VoIP DSX provides cost-effective SIP Trunking with over a dozen certified providers from which to choose. Install DSX IP keysets on-premise or off-site in a remote office. Peer-to-peer connections conserve resources, and built-in NAT Traversal makes remote IP extension set up a breeze. Choose between the 34-Button Backlit Display and the 34-Button Backlit Super Display offering the same features as their digital counterparts as well as Full Duplex speakerphones. Compliant third-party SIP phones, soft phones, and Analog Telephone Adapters (ATAs) are also supported.

DSX Mobile IP Extension lets employees on the go use their smartphone to stay in touch with co-workers and associates. Mobile IP Extension uses a softphone (such as Counterpath's Bria) on an iPhone or Android smartphone as a DSX IP extension. The mobile extension connects to the office WiFi network when the user is at work and automatically re-registers over the cellular network while they travel. The basic operation of the Mobile IP Extension never changes, regardless of location.

Affordable and Reliable Designed with affordability and scalability in mind, DSX is sized right – from the economical DSX-40 to the DSX-80/160. All DSX-80 cards can be migrated to the DSX-160. Even when growing from the DSX-40, your investment in IntraMail, programming, telephones, and other station equipment is retained. Since DSX is simple to install and easy to use, the expenses of configuration, programming, and post-installation training are minimized. Additionally, the core DSX call processing features are mature, efficient, and reliable – yet intuitive and easy to use.

PUT INTRAMAIL TO WORK FOR YOU

IntraMail The ability to add voice mail is built into the system and only requires a compact flash card to activate. IntraMail is a full-featured Voice Mail Auto Attendant system that will greet and transfer callers and record voice mail messages. With built-in voice prompt guidance in English, Spanish, and French, IntraMail is a great fit in multilingual environments. From 2 to 8 voice mail ports are available and easily upgraded through licensing. IntraMail features include:

- *Message Center* – Notify extension groups of important messages visually, using a message center key.
- *Directory Dialing* – Dial a name instead of a number to reach your party.
- *Message on Hold* – Record your own informative company message.
- *Caller ID* – Caller information is verbally provided with a voice mail message.
- *Conversation Record* – Save and record conversations with the touch of a button.
- *Live Call Screening* – Listen as callers leave a message and pick up to answer.

IntraMail Pro Supports all of the features of IntraMail plus:

- *Email Integration* – Receive notification of a new voice mail message to your email inbox. Notification includes the caller's number and name and can optionally include the recorded message as a .WAV file attachment. Additionally, Email Integration can automatically dispose of a new message when it is sent. The email disposition options include *Save When Sent* (save the voice message once the email is sent) and *Erase When Sent* (conversely erase the voice message).
- *Email Synchronization* – The status of the voice mail message is automatically updated when you open the email and is displayed in the message. The voice mail message will be marked as listened to and will be saved or erased based on the user's preferences. There is no additional setup or special email requirements. Email Synchronization works with all types of email accounts (client or web-based).
- *Cascading Message Notification* – Cascading Message Notification can call you at up to five preset destinations to let you know a new voice mail message has arrived.
- *Park and Page* – Allows a caller to page you without operator assistance. You can pick up the call from any extension.
- *Find Me Follow Me* – The Automated Attendant can find you when you're not at your desk.
- *Wakeup Call* – Great for Motels and Bed & Breakfast establishments, DSX can automatically deliver a wakeup voice message to a room guest at a designated time. Wakeup Calls are conveniently managed from the web-based Wakeup Call Manager at the front desk. The front desk can set new wakeups, change those that are currently scheduled, and review the status of wakeups that were answered or ignored.



Email Synchronization



FLEXIBLE, INTUITIVE SOLUTIONS FOR TODAY'S OFFICE

Built-in Caller ID The capability for Caller ID (with Call Waiting) is inherent in every DSX system. With Caller ID, you can identify incoming callers before the call is answered. The caller's name and number (if available) will appear simultaneously in the display.

Logging – Stores the name, number and time/date of received outside calls for easy review, save and redial.

Return Call – Easily return a call without manually re-entering the caller's number. Select from a list of choices or have the system automatically redial the call for you.

Checking – A manager can view Caller ID information associated with a co-worker's line or extension.

Analog Ports – Caller ID information can be sent to analog single line ports for use with customer-provided Caller ID accessories.

Wireless IP DECT The ML440 Wireless IP DECT handset and AP20 Access Point provide the convenience of mobility by combining the latest VoIP and DECT communication technologies. The ML440 and AP20 use WiFi friendly DECT 6.0 (1.9 GHz) technology, so they won't disrupt the office wireless network. A single AP20 accommodates 30 handsets and supports 10 simultaneous calls. The extended-coverage solution, with support for up to 20 access points, provides seamless handover. DSX supports up to 32 ML440 handsets per system.



Wireless IP DECT

Phone Manager Administration Tool Users and administrators can easily customize the most frequently-used telephone features with DSX Phone Manager. There is no software to install – Phone Manager is built into DSX and is web-based. The intuitive interface gets the user up to speed right away with no special training required.

Customize Your Communication Solution Advanced telephone features include:

- *Backlit Display and Illuminated Dial Pad*¹ – easy viewing in low light areas.
- *Interactive Soft Keys* – that change function as you use your phone, allowing you to access to advanced features by just pressing a key.
- *User Level Programming* – easy and intuitive guided menu system for customizing the features of your telephone.
- *Hot Dial Pad* – dial a call without first lifting the handset or pressing keys.
- *Dual color (red/green) LEDs* – to help easily distinguish between calls.
- *Desk Stand* – adjustable for two different positions.
- *Wall Mounting* – built-in for low-profile wall mounting capability.



Cordless DECT

Offers mobility, plus many standard features of the wired telephone, including handsfree, 8 programmable feature keys with LEDs, and a backlit display. Range extendable via repeaters.



Wireless Headset Adapter¹

Provides seamless integration with Plantronics Wireless Headset Systems.



DSS Console

For power users, provides another 60 dual color programmable keys.

22-Button Display

Offers a large display, programmable keys, and a built-in speakerphone – making this the most economical option without sacrificing convenience.



34-Button Display²

The same features as the 22-Button Display, plus additional programmable keys, and is enhanced with a backlit display and illuminated dial pad.

34-Button Super Display²

All the features of the 34-Button Display and offers our largest, most interactive display for advanced users. Unique light sensors adjust the phone's brightness based on room lighting.



¹Select models.

²Available in IP and digital telephone models.

DSX digital telephones and console are available in black or white. IP and cordless telephones are available in black only.

DSX Specifications and Features



Specifications¹

| DSX-40 | Base | Max ¹ |
|----------------------------|------|------------------|
| Digital Stations | 8 | 24 |
| VoIP Stations ⁴ | | 32 |
| VoIP Gateway Ports | | 8 |
| Analog Stations | 2 | 18 |
| Lines | 4 | 8 |
| SIP Trunks | | 8 |
| Door Box Ports | 2 | 2 |

| DSX-80 | | |
|----------------------------|--|----|
| Slots | | 4 |
| Digital Stations | | 32 |
| VoIP Stations ⁴ | | 32 |
| VoIP Gateway Ports | | 16 |
| Analog Stations | | 32 |
| Lines | | 64 |
| SIP Trunks | | 16 |

| DSX-160 | | |
|----------------------------|--|----|
| Slots | | 8 |
| Digital Stations | | 96 |
| VoIP Stations ⁴ | | 32 |
| VoIP Gateway Ports | | 16 |
| Analog Stations | | 96 |
| Lines | | 64 |
| SIP Trunks | | 16 |

| IntraMail | | |
|----------------------------|---------------|-----|
| Voice Mail Ports | 2, 4, 6, or 8 | |
| Storage Hours ³ | 8, 16, or 32 | |
| Subscriber Mailboxes | | 128 |

| General | |
|------------------------------------|--|
| One Pair Wiring | |
| USB 2.0 (Full Speed) | |
| 10/100 BASE-TX Ethernet, Auto-MDIX | |
| RS-232 Serial Port for SMDR | |

Direct Station Selection (DSS)
 Direct Station Selection (DSS) Console
 Directed Call Pickup
 Directory Dialing with Search
 Distinctive Ring (ICM, CO, Ring Grp, Recall)
 Do Not Disturb
 Do Not Disturb Override
 Door Box (Analog)
 Extended Ringing
 Extension Hunting (Circular, Terminal, UCD)
 Extension Locking
 Flash
 Flexible Numbering Plan
 Forced Line Disconnect
 Group Call Pickup
 Group Listen
 Group Ring
 Handsfree and Handsfree Answerback
 Headset Compatibility
 Hold (with Recall Display)
 Hold and Park Programmable Recall Cycles
 Home Automation Integration (HAI-compatible)⁵
 Hot Dial Pad
 Hotline
 Illuminated Dial Pad (selected models)
 Interactive Soft Keys
 Intercom
 Intercom Queue Key
 Internet Time Service
 ISDN / PRI²
 Language Selection
 Last Number Redial
 Line Groups
 Line Keys
 Line Queuing / Callback
 Line Scheduling
 Loop Keys
 Meet-Me Conference
 Message on Hold (Built-in)
 Message Waiting
 Microphone Mute
 Modem (Built-In)
 Monitor / Silent Monitor
 Music on Hold
 Names for Extensions and Lines
 NAT Traversal
 Night Service / Night Ring
 Off-Hook Signaling
 Paging (Internal and External) with Answer
 Paging, Multicast
 Park (with Recall Display)
 Park Orbit Recall Pickup
 Password Reset Utility
 PBX / Centrex Compatibility
 PC Program (System Administrator)
 Peer-to-Peer IP Extensions
 Phone Manager
 Prime Line Preference
 Privacy
 Privacy Release Groups
 Private Line
 PRI / ISDN²
 PRI Calling Party Number
 Pulse to Tone Conversion
 Remote IP Extensions
 Remote Programming
 Removing Lines and Extensions From Service
 Reverse Voice Over
 Ring / Message Lamp
 Ringdown Extension
 Ringing Line Preference
 Room Monitor
 Save Number Dialed
 Selectable Display Messaging
 Silent Monitor
 Single Line Telephones
 SIP Trunking
 Speakerphone

Speed Dial
 Split (Alternate)
 Station Message Detail Recording
 System Programming Backup and Restore
 System Programming Password Protection
 T1 Lines²
 Temperature Display
 Tie Lines²
 Time and Date
 Toll Restriction
 Transfer (with Recall Display)
 Upgrades via License for VoIP Ports
 User Level Programming
 Voice Mail
 Voice Over
 VoIP Extensions
 Volume and Contrast Controls
 Walking Class of Service
 Wall Mount / Desk Stand (Built-in)
 Wireless Headset Adapter (WHA)
 Wireless IP DECT (ML440)

IntraMail Features

Announcement Message
 Answering Machine Emulation / Call Screen
 Auto Time and Date Stamp
 Autoplay Messages
 Automated Attendant
 Broadcast Message
 Caller ID (with Return Call)
 Centrex Transfer
 Conversation Record
 Directory Dialing
 Distribution Lists
 Email Integration with Name³
 Email Synchronization³
 External Transfer
 Fax Detection
 Find Me Follow Me³
 Flexible Answering Schedules
 Interactive Soft Keys
 Message Center Mailbox
 Message Disposition³
 Message Notification (Local and Remote)
 Message Notification (Cascading³)
 Multilingual Prompts (English, Spanish, French)
 Multiple Company Greeting (8)
 Number of Messages Displayed
 Park and Page
 Personal Greeting (3)
 Security Code (with Option)
 Single Digit Dialing
 System Administrator
 Upgrade Licenses for IntraMail Ports and IntraMail Pro
 Voice Mail Overflow
 Voice Prompting Messages
 Wakeup Call³

¹Capacities listed are system maximums and may be limited by system configuration.

²DSX-80/160 only.

³Requires IntraMail Pro.

⁴Connectivity limited by available VoIP Gateway ports.

⁵HAI-Compatible systems include Omni IIe, OmniPro II, Lumina, and Lumina Pro.

DSX Features

2-Position Telephone Angle Adjustment
 Account Codes
 Alphanumeric Display
 Ambient Light Sensor
 Attendant Position
 Auto Redial
 Auto Attendant (Built-in)
 Automatic Daylight Savings Time Adjustment
 Automatic Handsfree
 Automatic Ring Down
 Background Music
 Backlit Display (selected models)
 Barge In (Intrusion)
 Battery Backed-up Memory
 Call Coverage Keys
 Call Forwarding On and Off Premises
 Call Timer (with or without a key)
 Call Waiting / Camp-On
 Callback
 Caller ID (with Call Waiting)
 Caller ID Logging (CID with Return Call)
 Caller ID Manual Callback
 Caller ID to Single Line Telephones
 Class of Service
 Conference (up to 8 parties per conference)
 Conference, Meet-Me
 Conference, Unsupervised
 Cordless DECT Telephone
 Delayed Ringing
 Department Groups (for Ring and UCD Groups)
 Dial Number Preview
 Dial Tone Detection
 Direct Inward Dialing (with ANI/DNIS and DID Translation Name)²

©NEC Corporation of America
 6555 N. State Hwy 161, Irving, Texas 75039
 DSX is a trademark of NEC Corporation of America.

Some features may be optional or available at a future date. Recording of phone calls is subject to varying state/federal laws.

The information herein is subject to change without notice at the sole discretion of NEC.



To find out more about the DSX contact your local NEC dealer, visit our website at www.necdsx.com, or call 800-365-1928.

Empowered by Innovation **NEC**