

# DSX BUSINESS



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.

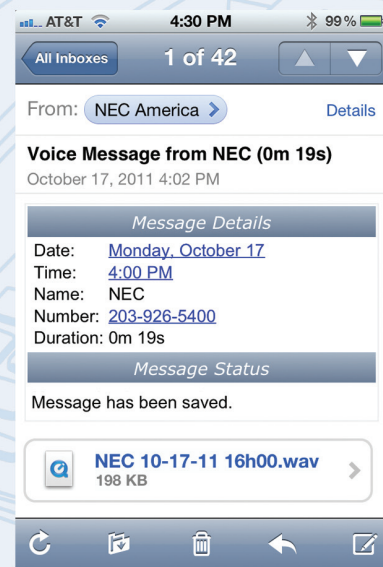
## PUT INTRAMAIL TO WORK FOR YOU

**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.

**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*<sup>1</sup> – 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.

### 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 Display<sup>2</sup>

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 Display<sup>2</sup>

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.



Wireless IP DECT

### 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 Adapter<sup>1</sup>

Provides seamless integration with Plantronics Wireless Headset Systems.



### DSS Console

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



<sup>1</sup>Select models.

<sup>2</sup>Available 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



## Specifications<sup>1</sup>

<b>DSX-40</b>	<b>Base</b>	<b>Max<sup>1</sup></b>
Digital Stations	8	24
VoIP Stations <sup>4</sup>		32
VoIP Gateway Ports		8
Analog Stations	2	18
Lines	4	8
SIP Trunks		8
Door Box Ports	2	2

<b>DSX-80</b>		
Slots		4
Digital Stations		32
VoIP Stations <sup>4</sup>		32
VoIP Gateway Ports		16
Analog Stations		32
Lines		64
SIP Trunks		16

<b>DSX-160</b>		
Slots		8
Digital Stations		96
VoIP Stations <sup>4</sup>		32
VoIP Gateway Ports		16
Analog Stations		96
Lines		64
SIP Trunks		16

<b>IntraMail</b>		
Voice Mail Ports	2, 4, 6, or 8	
Storage Hours <sup>3</sup>	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)<sup>5</sup>  
Hot Dial Pad  
Hotline  
Illuminated Dial Pad (selected models)  
Interactive Soft Keys  
Intercom  
Intercom Queue Key  
Internet Time Service  
ISDN / PRI<sup>2</sup>  
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 / ISDN<sup>2</sup>  
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 Lines<sup>2</sup>  
Temperature Display  
Tie Lines<sup>2</sup>  
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 Name<sup>3</sup>  
Email Synchronization<sup>3</sup>  
External Transfer  
Fax Detection  
Find Me Follow Me<sup>3</sup>  
Flexible Answering Schedules  
Interactive Soft Keys  
Message Center Mailbox  
Message Disposition<sup>3</sup>  
Message Notification (Local and Remote)  
Message Notification (Cascading<sup>3</sup>)  
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 Call<sup>3</sup>

<sup>1</sup>Capacities listed are system maximums and may be limited by system configuration.

<sup>2</sup>DSX-80/160 only.

<sup>3</sup>Requires IntraMail Pro.

<sup>4</sup>Connectivity limited by available VoIP Gateway ports.

<sup>5</sup>HAI-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)<sup>2</sup>

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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.necdex.com](http://www.necdex.com), or call 800-365-1928.

Empowered by Innovation

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