

DSX RESIDENTIAL



WITH HOME AUTOMATION INTEGRATION



NEC

WHAT CAN A DSX-40 SYSTEM DO FOR YOUR HOME?

In addition to the many home amenities you've thoughtfully chosen to simplify and enhance your life, DSX offers the same sophistication and modern conveniences for your home communications system.

Intercom with Room Monitor

Intercom is a great way to find people in the house, especially if you have a large home and wish to speak to someone in another room or on another floor. It also serves as a great security device that allows you to hear what is going on in other areas of your home or to know who is outside before opening the door or gate.

Use the Room Monitor feature to listen in on your newborn in the nursery or any area that requires monitoring for security purposes.

Multi-line Capability – to maximize communications within your busy household.

Today's homes have multiple phone lines – a home phone line, his and her business and fax lines, etc. The DSX system gives you the capability to use these lines as you wish, by providing access from any room in the house. Privacy features allow you to designate which phones can share your private lines. No longer are you confined to your home office when working from home.

The Right DSX Telephone for Every Room

All DSX telephones have a built-in speakerphone, large display, and two-position angle adjustment. In addition, the built-in low-profile wall mount is ideal for use in a kitchen or garage. Enhanced models also offer an adjustable backlit display and illuminated dial pad. With several telephone models to choose from, each user can select and personalize their phone for their own individual needs. If your home has a wired data network, it is ready to accept DSX IP Telephones without the need to run separate wires and install new jacks.

Built-in Caller ID (with Call Waiting)

If you have Caller ID service, the DSX system is ready for you. For each received call, the DSX system stores the name, number, time and date, and who answered the call. You can easily return the call without having to manually enter phone numbers. The Caller ID with Call Waiting feature allows you to view the name and number of incoming calls while you are on another call. The system also sends Caller ID for both intercom and outside calls to standard analog phones.

Integrated Cordless Telephones

Enjoy mobile convenience with the DSX Cordless DECT telephone. Using advanced DECT 1.9 GHz wireless technology for improved clarity and range, this portable telephone provides access to many essential DSX telephone features. This includes Call Forwarding, Call Coverage, Hotline, and Voice Mail. Additionally, the Cordless DECT telephone has 8 fully programmable feature keys with LEDs and provides a 24-character 2-line LCD display (with a 3rd display line for unique call status icons). The Cordless DECT offers a robust 16-hour talk time with 7-day standby.



IntraMail – Sophisticated Answering System with Voice Mail

NEC's IntraMail Auto-Answering Voice Messaging System answers and directs calls, records individual voice messages, and saves the Caller ID number for immediate call back capability. Since IntraMail is integrated within the DSX, an optional IntraMail compact flash card is all that is required for these and many other features:



Multiple Greetings – With IntraMail you can have a different greeting for each line and multiple greetings for each family member.

Message Notification – No need to call home to check for new messages. IntraMail can automatically call you at a designated number when new messages arrive. With IntraMail Pro, you can also receive a text message or an email with the voice message attached.

Live Call Screening – Listen to a caller as they are leaving you a voice mail message. Choose to take the call or let them continue recording the message. You may also listen to the caller automatically through the speaker in any DSX telephone in the house.

Conversation Record – While on an important call, you can record the conversation into any voice mailbox for later review.

Message Center Key – Voice messages can be left in a designated mailbox for group access using a Message Center key.

Message on Hold – Record or import an informative message or music that will play to callers while they wait for you to become available.

HOME AUTOMATION INTEGRATION PROVIDES SECURITY AND CONVENIENCE

DSX Home Automation Integration allows your DSX telephone to control the features of your HAI-compatible¹ Home Automation System.

Press uniquely-programmed feature keys to access your Home Automation System controls. A “top level” feature key lets you use the interactive soft keys to navigate step-by-step through the home automation devices and options. Additionally, you can set up a feature key to go directly to a specific device such as a light, thermostat, lock, or audio control.

Lighting

Control your home and premises lighting from the convenience of any DSX telephone from any room in the house. Press a soft key to turn a light on or off, make it dimmer, or increase its brightness. The telephone display shows which lights are off, which are on, and the relative brightness of those that have dimmer adjustments. You can also press a key for a room and turn all the lights in that room on or off simultaneously. Keys for individual lights can be optionally illuminated when the light is on.



Security

DSX can also control security, one of the most essential components of any home automation system. For example, at night you can easily view the alarm status and arm the system from your telephone, without the need for an alarm panel on your bedroom wall. You can also have a key for each zone or area providing alarm status at a glance.

Access

The keys on your DSX telephone can also monitor and control access to your home's doors and gates. If your home has an entry gate with an access control card reader, you can have a key on your telephone show the lock status as well as open the gate to allow visitors to enter.

Audio

DSX provides control of an HAI-compatible¹ audio system right from your phone. You can quickly access any audio zone in your home to turn it on or off, change the audio source, or adjust the volume. In addition, DSX will automatically mute the audio in the room when the phone is ringing or you are on a call. This is a real convenience when the music is blaring and you need to answer an important call.

Scenes

Activation of many other features of your Home Automation System is available from any convenient DSX telephone. *Scenes* let you preset multiple home automation features that you can activate with the press of a DSX telephone key. Movie aficionados can set up a *Movie Scene* for their media room that automatically closes the blinds, dims the lights, and turns on their home theater equipment. Sit down to watch a movie, press the **MOVIE SCENE** key, and enjoy the show! As another example, a *Bedtime Scene* can lock the home and turn off the lights. When you are ready for bed, press the **BEDTIME** key on your nightstand DSX telephone and enjoy peace and security for the night.

Climate

Use the integrated climate control options to keep your home comfortable while effectively managing your energy expenses. Your DSX telephone can adjust the operating settings of the heating, air conditioning, and humidification control systems for each zone in your home. The telephone display shows you the current temperature and relative humidity for the selected zone. To keep the levels at their current settings, just press the **HOLD** soft key and your settings will remain until you press the key again.

While accessing a thermostat, the **MODE** soft key allows you to set the operating mode for the entire climate control system. Then, press **HEAT** to turn on the heating system, **COOL** to activate air conditioning, or **AUTO** to have the system automatically set the mode. You can also set the circulation fan operating mode (**ON, AUTO, CYCLE**).

With an auxiliary temperature sensor, you can add the outdoor temperature to the standard date and time display on all telephones in the house.




¹HAI-Compatible systems include Omni Iie, OmniPro II, Lumina, and Lumina Pro.

DSX	 8-Button DECT Cordless	 22-Button Display	 34-Button Display	 34-Button Super Display
Feature Keys	8	12	24	24
One Touch Keys	0	10	10	0
Fixed Keys	7	12	12	12
Soft Keys	0	4	4	12
LCD Display	2 x 24	3 x 24	3 x 24	9 x 24
Speakerphone	Yes	Yes	Yes	Yes
Backlit Display	Yes	No	Yes	Yes
Illuminated Dial	Yes	No	Yes	Yes
Headset Jack	2.5mm	Modular	Modular	Modular
Colors	Black	Black or White	Black or White	Black or White

DSX-40 System Capacity

Base configuration supports up to four lines, eight digital stations, two standard phones, and two door boxes. The system can be easily expanded to eight lines and twenty-six telephones. Cordless DECT range-extending repeaters and standard telephones are also available.

DSX-40 Specifications⁵

	Base	Max ⁵	
DSX Telephones	8	24	
Standard Telephones	2	18	
IP Telephones	8	8	
Lines	4	8	
SIP Trunks	8	8	
Door Boxes	2	2	Door Box

Electrical

Certification: FCC Part 15 Class B, FCC Part 68, TIA-968-A-3, UL, cUL
 Power Input: 120VAC, 50-60 Hz, 1.1A (max)
 Power Consumption: 35 Watts (Typical base system with 8 phones)

Environmental

Operating Temp: 32° to 104° F (0° to 40° C)
 Humidity: 10 to 95% Non-condensing
 Dimensions: 13.2" x 10.5" x 2.75" (335 x 267 x 70mm) W x H x D
 Weight: 3.6 Lbs (1.65 kg)

Connections

Telephones: RJ-61 (4-pair USOC), Single pair per phone
 Lines: RJ-61 (4-pair USOC), Single pair per line
 Power Fail Transfer: RJ-61 (4-pair USOC), 2 Ports (Lines 1 and 2)
 Audio In/Out: 1/8" (3.5mm) 2-conductor (mono) Mini-Jack
 USB: Type B, USB 2.0 (Full Speed)
 Ethernet: RJ-45, 10BASE-T/100 BASE-TX, Auto-MDIX
 Serial: 6-Conductor Modular Jack

IntraMail

Capacity: 2, 4, and 8 Ports
 Storage: 8, 16, and 32 Hours
 Mailboxes: 128

Programming

Local: Ethernet, USB, Phone
 Remote: Ethernet

¹Requires subscription to name/number Caller ID service offered by your provider.
²Requires Caller ID with Call Waiting service offered by your provider.
³Distinctive ring tones are only available with DSX proprietary phones.
⁴Recording of phone calls is subject to varying state and federal laws.
⁵Capacities listed are system maximums and may be limited by system configuration.
⁶Requires IntraMail Pro.

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 Some features may be optional or available at a future date. 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.

DSX-40 Compatibility

Easily connect industry standard products that suit your household communication needs.

- Cordless Telephones
- Caller ID Accessories
- Fax Machines
- External Music Source

System Programming

Installers can program on-site from the telephone or from a PC connected to the system's built-in USB or Ethernet ports. Remote programming is available through the Ethernet port.



DSX-40 System

DSX-40 Features

- Automated Attendant (Built-In)
- Auto Redial
- Automatic Daylight Savings Time
- Automatic Handsfree
- Background Music
- Backlit Display (select models)
- Barge In (Intrusion)
- Brightness and Contrast Control
- Call Coverage Keys
- Call Forwarding / Off Premise
- Call Timer
- Caller ID Logging (w/Return Call¹)
- Caller ID to Standard Telephones¹
- Caller ID (with Call Waiting^{1,2})
- Color Choice (black or white)
- Conference (up to 8-parties)
- Cordless Telephone
- Delayed Ringing
- Dial Number Preview
- Direct Station Selection (DSS)
- Directory Dialing (Personal, Ext.)
- Distinctive Ring³
- Do Not Disturb
- Door Box (Analog)
- Flexible Numbering Plan
- Group Call Pickup
- Group Listen
- HAI Integration
- Handsfree with Answerback
- Headset Compatibility
- Hold (with Recall Display)
- Hotline
- Hot Dial Pad
- Illuminated Dial Pad (select models)
- Interactive Soft Keys
- Intercom
- Language Selection
- Last Number Redial
- Line Flash
- Line Groups
- Line Keys
- Message On Hold (Built-In)
- Message Waiting
- Microphone Mute
- Modem (Built-In)
- Monitor / Silent Monitor
- Music on Hold
- Names for Telephones & Lines
- Night Service / Night Ring
- Off-Hook Signaling
- Paging (Internal and External)
- Prime Line Preference
- Privacy / Privacy Release
- Private Line
- Programming Local and Remote
- Reverse Voice Over
- Ring / Message Lamp
- Ring Line Preference
- SIP Trunks
- Speakerphone
- Speed Dial
- Standard Telephones
- Time and Date
- Toll Restriction
- Transfer (with Recall Display)
- Voice Mail
- Voice Over
- VoIP Extensions
- Volume Control
- Wall Mount / Desk Stand (Built-in)

IntraMail Features

- Call Screening
- Auto Time and Date Stamp
- Automated Attendant
- Caller ID with Return Call¹
- Conversation Record⁴
- Directory Dialing
- Email Integration⁶
- Fax Detection
- Find Me Follow Me⁶
- Flexible Answering Schedules
- Message Center Mailbox
- Message Notification
- Message Notification, Cascading⁶
- Multiple Line Greeting (8)
- Number of Messages Displayed
- Personal Greeting (3)
- Recordable Message on Hold
- Security Code
- Single Digit Dialing
- Voice Prompting Messages

