

**Important**

**DS-Series data bases are not compatible with DSX.**

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# DSX

## Upgrading DS2000 to DSX-80/160

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This manual has been developed by NEC Unified Solutions, Inc. It is intended for the use of its customers and service personnel, and should be read in its entirety before attempting to install or program the system. Any comments or suggestions for improving this manual would be appreciated. Forward your remarks to:

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# Upgrading

## Overview

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### DS2000 and DSX-80/160 Compatibility Basics

When upgrading DS2000 to DSX-80/160, much of the DS2000 station equipment is compatible with the new DSX-80/160 system. This allows the customer to preserve their substantial investment in DS-Series telephones when migrating to the DSX-80/160. Here are some basic upgrade guidelines:

1. **The DS2000 4-slot KSU is not compatible with DSX.**  
You must replace the DS2000 4-slot KSU with a DSX-80 KSU. The FCC prohibits the use of DS KSUs with DSX.
2. **The DS2000 8-Slot KSU is not compatible with DSX.**  
You must replace the DS2000 8-slot KSU with a DSX-160 KSU. The FCC prohibits the use of DS KSUs with DSX.
3. **You must install a DSX CPU Card.**  
The DS CPU PCB cannot run DSX software.
4. **You must install a DSX 16 Port Digital Station Card (16ESIU) in KSU port 1.**  
The DSX system will not operate without a 16ESIU PCB in slot 1.
5. **To use telephone programming, you must connect at least one DSX telephone.**  
DSX telephones connect only to DSX 16ESIU PCBs.
6. **Do not use DS2000 power supplies in DSX-80/160.**  
You must replace all DS2000 power supplies with DSX supplies. The FCC prohibits the use of DS power supplies with DSX.
7. **DS-Series telephones must connect to DS 16DSTU PCBs.**  
Install 16DSTU PCBs in any available KSU slot but slot 1.

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## How to Use this Manual

This manual is organized in two chapters as follows.

✦ **Upgrading**

This is the chapter you are reading now. It provides:

- The compatibility basics (page 1).
- A detailed compatibility chart (page 3).
- The Combined System Load Factor Worksheet (page 6).
- Detailed upgrade examples (page 7).

✦ **Parts Lists**

For your reference when upgrading, this chapter provides a complete list of parts for both the DS2000 and DSX-80/160 systems.

✦ **Cross Reference**

Another important tool when upgrading, this chapter consists of a DS-Series to DSX program cross reference. The DS-Series programs are in the left column, followed by the option description, with the corresponding DSX program in the right column.

## DS2000 to DSX-80/160 Detailed Compatibility

DS2000 to DSX-80/160 Detailed Compatibility Chart (Page 1 of 2)			
Description	Part Number	DSX Compatible	Comment
<b>DS2000 Telephones</b>			
34-Button Super Display Telephone	80673	Yes	Must connect to a DS2000 16DSTU PCB. Install the DS 16DSTU PCB in any DSX-80/160 KSU slot but slot 1.
34-Button Display Telephone	80663		
22-Button Telephone	80570		
22-Button Display Telephone	80573		
BDS Cordless Telephone	80683		
24-Button DSS Console	80556	No	Replace with DSX 60-Button DSS.
110-Button DSS Console	80555		
2-OPX Module (Discontinued)	92177A	No	OPX feature is not available in DSX.
Digital Door Box (Discontinued)	80560	No	Replace with DSX Analog Door Box and 2PGDAD Module.
Analog Door Box	92245	Conditional	Requires 2PGDAD Module.
Single Line Telephones	-	Yes	Requires DSX 16SLIU PCB or DS2000 4/8ASTU PCB.
<b>DS2000 Common Equipment</b>			
4 Slot KSU	80000	No	Replace with DSX-80 KSU.
8 Slot KSU	80001	No	Replace with DSX-160 KSU.
Power Supply	80005B/C	No	Replace with DSX power supply. FCC regulations prohibit the installation of DS2000 power supplies in DSX.
Installation Cable	80892	Yes	Compatible.
8-Pin DIN to Mod-8 Cable	80893	No	DSX serial port can connect to an SMDR device using DSX Serial Adapter 1091014 and a customer provided 6-conductor line cord.
DB9 to Mod-8 Adaptor	85980	No	
DB25 to Mod-8 Adaptor	85981	No	DSX serial port cannot connect to an external modem.
Modem (CNET CN5614XR)	85862D	No	Must use DSX built-in modem.

# Overview

DS2000 to DSX-80/160 Detailed Compatibility Chart (Page 2 of 2)			
Description	Part Number	DSX Compatible	Comment
<b>PCBs</b>			
Central Processing Unit	80025B	No	Replace with DSX-80/160 CPU.
16DSTU Digital Station PCB	80021A	Yes	Used for DS telephones on DSX. Install in any DSX-80/160 KSU slot but slot 1.
16ASTU 16 Port Analog Station PCB	80042	Conditional	The hardware is compatible. However, the on-board firmware must be upgraded to version 1.4 or higher. Contact Sales Support at 800-365-1928 for more.
8ASTU 8 Port Analog Station PCB	80041B	Yes	DSX 16SLIU provides more stations per PCB.
4ASTU 4 Port Analog Station PCB	80040B	Yes	
8ATRU 8 Port Analog Trunk PCB	80011B	Yes	DSX COIU PCB provides superior Caller ID detection.
4ATRU 4 Port Analog Trunk PCB	80010B	Yes	
T1 Trunk PCB	80061	Conditional	T1 service only. Will not provide PRI when installed in DSX-80/160.
<b>Voice Mail</b>			
DS-Series IntraMail	80045 80089	No	Replace with DSX IntraMail. DS IntraMail CompactFlash card is not compatible with DSX.
UltraMail and UltraMail 2000	17712 17714 17744	No	Not tested for compatibility. Replace with DSX IntraMail.
Analog Voice Mail		Conditional	NVM-DFx is tested for compatibility with DSX-80/160 and is recommended.
Digital VANGARD	17770A- xPDIG	No	Not tested for compatibility. Replace with DSX IntraMail.



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## Understanding System Load Factor

The combination of lines and extensions you can connect to your DSX system may be limited by the System Load Factor. Use the *Combined System Load Factor Worksheet* chart on the next page to verify your system's configuration. When entering data on the chart, for each installed card make entries for each *Load Type*. There are two *Load Types* to consider: 5 VDC and 40 VDC.

### To check your system configuration:

1. Indicate the quantity for each card installed in the **Qty** column.
  - The number of keysets, single line sets, and DSS Consoles does not affect the load factor.
2. For each item and for each Load Type, multiply the **Qty** times the **Load** and enter the value in the **Total** column.
  - For example, two 16ESIU Cards have a load of 16 for 5 VDC and 40 for 40 VDC.
3. Add up the entries in each **Total** column and enter the values in **Item 1: Load Type Totals**.
4. Review **Item 2: Power Supply Capacity** and determine the capacity of the power supplies installed in your system.
5. Compare the capacities in **Item 2** to your entries in **Item 1**. **Item 1** must always be equal to or less than the entry in **Item 2**.

**Important**  
**Do not operate your system if the total for either Load Type exceeds the Power Supply Capacity of your installation.**

# Combined System Load Factor

DS2000 and DSX-80/160 Combined System Load Factor Worksheet					
Description	Qty	Load Type			
		5 VDC		40 VDC	
		Load	Total	Load	Total
DSX-80/160 CPU Card	1	12	12	0	0
DSX-80/160 16ESIU Card		8		20	
DS2000 16DSTU PCB		3		20	
DSX-80/160 8SLIU Card		5		8	
DSX-80/160 16SLIU Card		10		16	
DS2000 4ASTU PCB		3		5	
DS2000 8ASTU PCB		5		8	
DSX-80/160 8COIU Card		3		0	
DSX-80/160 16COIU Card		6		0	
DS2000 4ATRU PCB		4		0	
DS2000 8ATRU PCB		8		0	
DSX-80/160 T1/PRI Card		8		0	
<b>Item 1: Load Type Totals</b> (Cannot exceed Item 2: Power Supply Capacity.)					
<b>Item 2: Power Supply Capacity</b>					
If you have <u>one</u> power supply installed, the capacity is:		5 VDC = 40	40 VDC = 48		
If you have <u>two</u> power supplies installed, the capacity is:		5 VDC = 80	40 VDC = 80		
If you have <u>three</u> power supplies installed, the capacity is:		5 VDC = 120	40 VDC = 120		
<b>Notes:</b>					
<ul style="list-style-type: none"> <li>• DSX-80 can only have 1 power supply.</li> <li>• DSX-160 can have up to 3 power supplies. You <i>cannot</i> have more than two 16ESIU or 16DSTU Cards per power supply, regardless of System Load Factor calculations.</li> <li>• Exceeding the allowed Load Type Total (Item 1) will cause the system's power supplies to automatically shut down and/or cause erratic system operation.</li> <li>• The total of all station, line, and DSS Console ports cannot exceed 160.</li> </ul>					

## Site 1: Upgrade DS2000 4x8 to DSX-80 4x8 with Automated Attendant

Site 1 wants to upgrade to DSX 22-button telephones and add an Automated Attendant, but does not require voice mail.

Existing DS2000 Equipment		Upgrade Requirements for DSX		
Description	Part Number	Description	Part Number	Comments
(1) DS 4ATRU PCB	80010B	Compatible - replacement not required.		DSX 16COIU PCBs provide more accurate Caller ID detection.
(1) DS 16DSTU PCB	80021A	Not required.		Since Site 1 has two spare slots, the DS 16DSTU can be moved from slot 1 and used with the DS telephones.
(8) DS 22-Button Telephone (non-display)	80570	Not required.		DS telephones can however, be used if DS 16DSTU is installed.
(1) DS 4-Slot KSU	80000	Must be replaced.		DS KSUs are prohibited by FCC in DSX
(1) DS Power Supply	80005C	Must be replaced.		DS power supplies are prohibited by FCC in DSX.
(1) DS CPU	80025B	Must be replaced.		The DS CPU is not compatible with DSX.
New DSX Equipment Required		(1) DSX-80 KSU	1090002	Required in DSX.
		(1) DSX Power Supply	1091008	Required in DSX.
		DSX CPU Card	1090010	<ul style="list-style-type: none"> <li>Required in DSX.</li> <li>Built-in Automated Attendant is available by default, without adding voice mail.</li> </ul>
		(1) DSX 16ESIU Card	1090004	<ul style="list-style-type: none"> <li>Required in DSX.</li> <li>DSX 16ESIU is required in slot 1 for DSX telephones.</li> </ul>
		(8) DSX 22-Button Button Display Telephone	1090020 (Black) or 1090025 (White)	These telephones have a 3x24 display.
<b>Summary:</b> <ul style="list-style-type: none"> <li>To upgrade, in addition to DSX telephones Site 1 must invest in a new DSX-80 KSU, DSX Power Supply, DSX CPU Card, and DSX 16ESIU PCB.</li> <li>As a benefit, the existing DS telephones and DS 16DSTU PCB can be kept on hand for future expansion.</li> </ul>				

# Upgrade Examples

## Site 2: Upgrade DS2000 8x24 with UltraMail to DSX-80 8x24 and IntraMail

Site 2 wants the features of the DSX IntraMail but doesn't want to invest in new telephones.

Existing DS2000 Equipment		Upgrade Requirements for DSX		
Description	Part Number	Description	Part Number	Comments
(1) DS 8ATRU PCB	80011B	Compatible - replacement not required.		DSX 16COIU PCBs provide more accurate Caller ID detection.
(2) DS 16DSTU PCB	80021A	Compatible - but only 1 DS 16DSTU can be installed in the new DSX system.		DX requires a 16ESIU in slot 1. Load Factor allows only 1 DS 16DSTU to be installed. <b>8 DS telephones must be replaced.</b>
(24) DS 22-Button Display Telephone	80573	Compatible - but only 16 DS telephones can be used in the new DSX system.		With only 1 DS 16DSTU allowed, <b>8 DS telephones must be replaced with DSX telephones.</b>
(1) DS 4-Slot KSU	80000	Must be replaced.		DS KSUs are prohibited by FCC in DSX.
(1) DS Power Supply	80005C	Must be replaced.		DS power supplies are prohibited by FCC in DSX.
(1) DS CPU	80025B	Must be replaced.		The DS CPU is not compatible with DSX.
(1) 2 Port 3 Hour UltraMail	17712	Must be replaced.		UltraMail not supported in DSX and Site 1 wants IntraMail.
New DSX Equipment Required		(1) DSX-80 KSU	1090002	Required in DSX.
		(1) DSX Power Supply	1091008	Required in DSX.
		(1) DSX CPU Card	1090010	Required in DSX.
		(1) DSX 4x8 IntraMail	1091011	IntraMail CompactFlash Card plugs into DSX CPU.
		(1) DSX 16ESIU Card	1090004	<ul style="list-style-type: none"> <li>Required in DSX.</li> <li>DSX 16ESIU is required in slot 1 for DSX telephones.</li> </ul>
		(8) DSX 22-Button Button Display Telephone	1090020 (Black) or 1090025 (White)	Eight of the existing DS telephones must be replaced because only 1 DS 16DSTU remains installed.

**Summary:**

- To upgrade, Site 2 must invest in a new DSX-80 KSU, DSX Power Supply, DSX CPU Card, DSX 4x8 IntraMail, and a DSX 16ESIU PCB.
- Site 2 must also add eight new DSX telephones. This is required because only one DS DSTU PCB remains, supporting 16 DS telephones.
- Site 2 can alternately do the following:
  - Replace the DSX-80 4-Slot KSU with and DSX-160 8-Slot KSU.
  - Purchase another DSX Power Supply (due to Load Factor considerations).
  - Install the 16DSTU PCBs in the new DSX KSU for connecting their existing DS keysets.
  - Purchase a single DSX 22-Button Display Telephone for programming, and connect it to the DSX 16ESIU PCB.

## Site 3: Upgrade DS2000 16x48 to DSX-160 16x48 with Voice Mail

Site 3 is on the verge of expansion and wants to upgrade their common equipment and add voice mail. Like site 2, they do not want to invest in new station equipment.

Existing DS2000 Equipment		Upgrade Requirements for DSX		
Description	Part Number	Description	Part Number	Comments
(2) DS 8ATRU PCB	80011B	Compatible - replacement not required.		DSX 16COIU PCBs provide more accurate Caller ID detection.
(3) DS 16DSTU PCB	80021A	Compatible - replacement not required.		Cannot be installed in DSX KSU slot 1. That slot is reserved for a DSX 16ESIU card.
(40) DS 34-Button Display Telephone	80663	Compatible - replacement not required.		Requires DS 16DSTU PCB in any DSX KSU slot but slot 1.
(8) DS 34-Button Super Display Telephone	80673	Compatible - replacement not required.		Requires DS 16DSTU PCB in any DSX KSU slot but slot 1.
(1) DS 8-Slot KSU	80001	Must be replaced.		DS KSUs are prohibited by FCC in DSX.
(2) DS Power Supply	80005C	Must be replaced.		DS power supplies are prohibited by FCC in DSX.
(1) DS CPU	80025B	Must be replaced.		The DS CPU is not compatible with DSX.
New DSX Equipment Required		(1) DSX-160 8-Slot KSU	1090003	Only slots 1-4 will work with the DS 8-Slot KSU.
		(2) DSX Power Supply	1091008	Required in DSX. Two required due to Load Factor.
		(1) DSX CPU Card	1090010	Required in DSX.
		(1) DSX 8x16 Intra-Mail	1091013	IntraMail CompactFlash Card plugs into DSX CPU.
		(1) DSX 16ESIU Card	1090004	<ul style="list-style-type: none"> <li>Required in DSX.</li> <li>DSX 16ESIU is required in slot 1 for DSX telephones.</li> </ul>
		(1) DSX 22-Button Button Display Telephone	1090020 (Black) or 1090025 (White)	One DSX telephone required for telephone programming.
<b>Summary:</b> <ul style="list-style-type: none"> <li>To upgrade, Site 3 must invest in a new DSX-160 8-Slot KSU, two new DSX Power Supplies, DSX CPU Card, DSX 8x16 IntraMail, and a DSX 16ESIU PCB.</li> <li>To facilitate telephone programming, Site 3 must also add one new DSX telephone.</li> </ul>				

# Upgrade Examples

## Site 4: Upgrade DS2000 16x80 (T1) to DSX-160 23x96 (PRI)

Site 4 is a high-tech company that needs more telephones and wants to upgrade to PRI for cost savings. They have an existing 4 port x 8 hour IntraMail and need more capacity.

Existing DS2000 Equipment		Upgrade Requirements for DSX		
Description	Part Number	Description	Part Number	Comments
(5) DS 16DSTU PCB	80021A	Compatible - replacement not required.		Cannot be installed in DSX KSU slot 1. That slot is reserved for a DSX 16ESIU card.
(40) DS 34-Button Display Telephone	80663	Compatible - replacement not required.		Requires DS 16DSTU PCB in any DSX KSU slot but slot 1.
(40) DS 22-Button Display Telephone	80573	Compatible - replacement not required.		Requires DS 16DSTU PCB in any DSX KSU slot but slot 1.
(1) DS 8-Slot KSU	80001	Must be replaced.		DS KSUs are prohibited by FCC in DSX.
(3) DS Power Supply	80005C	Must be replaced.		DS power supplies are prohibited by FCC in DSX.
(1) DS CPU	80025B	Must be replaced.		The DS CPU is not compatible with DSX.
(1) DS 4x8 IntraMail	80045	Must be replaced.		DS IntraMail does not work in DSX.
(1) T1 Trunk PCB	80011B	Must be replaced.		The DS T1 Trunk PCB does not provide PRI when used in DSX.
New DSX Equipment Required		(1) DSX-160 8-Slot KSU	1090003	Only slots 1-4 will work with the DS 8-Slot KSU.
		(3) DSX Power Supply	1091008	Required in DSX. Three required due to Load Factor.
		(1) DSX CPU Card	1090010	Required in DSX.
		(1) DSX 8x16 IntraMail	1091013	IntraMail CompactFlash Card plugs into DSX CPU.
		(1) DSX T1/E1/PRI Card	1091006	Required for PRI.
		(1) DSX 16ESIU Card	1090004	<ul style="list-style-type: none"> <li>Required in DSX.</li> <li>DSX 16ESIU is required in slot 1 for DSX telephones.</li> </ul>
		(16) DSX 22-Button Button Display Telephone	1090020 (Black) or 1090025 (White)	Connect 16 DSX Telephones to the DS 16ESIU PCB in slot 1.
<b>Summary:</b> <ul style="list-style-type: none"> <li>To upgrade, Site 4 must invest in a new DSX-160 8-Slot KSU, three new DSX Power Supplies, DSX CPU Card, DSX 8x16 IntraMail, a DSX T1/E1/PRI PCB, and a DSX 16ESIU PCB.</li> <li>In addition, Site 4 must also add 16 new DSX telephone to reach the required total of 96.</li> <li>For future expansion in the available slot, Site 4 can add a 16COIU Card, or another T1/E1/PRI Card.</li> </ul>				

# DS2000 and DSX-80/160 Parts Lists

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## DS2000 Parts List

Station Equipment	
Description	Part Number
34-Button Super Display Telephone	80673
34-Button Display Telephone	80663
22-Button Telephone	80570
22-Button Display Telephone	80573
24-Button DSS Console	80556
110-Button DSS Console	80555
Wall Mount Kit	80579
Analog Telephones (customer provided)	

Peripheral Station Equipment	
Description	Part Number
2-OPX Module (Discontinued)	92177A

## DS2000 Parts

Common Equipment	
Description	Part Number
4 Slot KSU	80000
8 Slot KSU	80001
DS2000 Power Supply	80005B or 80005C (80005C <i>required</i> for UltraMail)
Installation Cable	80892
Blank PC Card	85880
PC Card with system software preloaded (*.*.* denotes the system software level)	80052-V*.*.*.*
8-Pin DIN to Mod-8 Cable	80893
DB9 to Mod-8 Adaptor	85980
DB25 to Mod-8 Adaptor	85981
Spare KSU Hanger	80578

PCBs	
Description	Part Number
Central Processing Unit	80025 <u>B</u>
16DSTU Digital Station PCB	80021 <u>A</u>
16ASTU 16 Port Analog Station PCB	80042
8ASTU 8 Port Analog Station PCB	80041 <u>B</u>
4ASTU 4 Port Analog Station PCB	80040 <u>B</u>
4ATRU 4 Port Analog Trunk PCB (loop start)	80010 <u>B</u>
8ATRU 8 Port Analog Trunk PCB (loop start)	80011 <u>B</u>
T1 Trunk PCB	80061
For UltraMail part numbers, installation, and programming, refer to the <i>Aspire Mail and UltraMail System Guide (P/N 17710SWG**)</i> .	



Replacement Parts	
Description	Part Number
Handset and Cord Assembly	80150
Noise Cancelling Handset	80150NC
22 Button Clear Plastic Cover	80600-22
34 Button Clear Plastic Cover	80600-34
34 Button Super Display Clear Plastic Cover	80600-S34
110 Button DSS Clear Plastic Cover	80600-DSS
24 Button DSS Clear Plastic Cover	80600-24DSS
Directory Tray	92602
9' Handset Coil Cord	92297-9
13' Handset Coil Cord	92297A-13
25' Handset Coil Cord	92297-25
7' Telephone Line Cord	82476-7
14' Telephone Line Cord	82476-14
Wall Mount Handset Clip Holder	80578
DS2000 RFI Bead Kit	88901
Modem (CNET CN5614XR)	85862D
Replacement Battery for CPU PCB	EX0254-0040

Parts Lists

## DSX-80/160 Parts

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### DSX-80/160 Parts List

Station Equipment	
Description	Part Number
22-Button Display Telephone with Speakerphone	1090020 (Black) 1090025 (White)
34-Button Backlit Display Telephone with Speakerphone	1090021 (Black) 1090026 (White)
34-Button Backlit Display Telephone with Full-Duplex Speakerphone	1090022 (Black) 1090027 (White)
34-Button Backlit Super Display Telephone with Full-Duplex Speakerphone	1090023 (Black) 1090028 (White)
60-Button DSS Console	1090024 (Black) 1090029 (White)
DTH-1-1 Single Line Telephone	780034
DTR-1-1 Single Line Telephone	780020 (Black) 780021 (White)
DTR-1HM-1 Single Line Telephone	780025 (Black) 780026 (White)
Analog Door Box	922450

DSX Cordless Lite II Telephone	
Description	Part Number
<b>Cordless Lite II Telephone</b>	<b>730087</b>
Cordless Lite II Base Unit AC Adaptor	730618
Cordless Lite II Base Unit Wall Mount Bracket	730608
Cordless Lite II Handset Charger	730632
Cordless Lite II Handset Charger AC Adaptor	730619
Cordless Lite II Wall Mount Bracket for Handset Charger	730633
Cordless Lite II Handset Battery	730631
Cordless Lite II Belt Clip	730634
Cordless Lite II M175 Headset	750637
Cordless Lite II MX150 Headset	750642

<b>DESI Labels</b>	
<b>Description</b>	<b>Part Number</b>
<b>DSX Telephone Labels</b>	
DSX 22-Button Display Telephone (White)	1093086
DSX 22-Button Display Telephone (Black)	1093085
DSX 34-Button Display Telephone (White)	1093084
DSX 34-Button Display Telephone (Black)	1093083
DSX 34-Button Super Display Telephone (White)	1093082
DSX 34-Button Super Display Telephone (Black)	1093081
DSX 60-Button DSS (White)	1093080
DSX 60-Button DSS (Black)	1093079
<b>DTR-1-1 Telephone Labels</b>	
Black	780400
Metallic Green	780401
Metallic Silver	780402
Lime Green	780403
Preprint (blank)	780459
<b>DTR-1HM-1 Telephone Labels</b>	
Black	780404
Metallic Green	780405
Metallic Silver	780406
Lime Green	780407
Preprint (blank)	780460
<b>DTH-1-1 Telephone Labels</b>	
Metallic Silver	780450

## DSX-80/160 Parts

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Common Equipment	
Description	Part Number
DSX-80 4-Slot KSU	1090002
DSX-160 8-Slot KSU	1090003
DSX Power Supply	1091008
Installation Cable	80892
DSX Serial Adaptor (requires customer-provided 6-conductor line cord)	1091014

Cards	
Description	Part Number
CPU Card	1090010
16 Port Digital Station Card (16ESIU)	1091004
16 Port Analog Station Card with HV Message Waiting (16SLIU)	1091007
8 Port Analog Station Card with HV Message Waiting (8SLIU)	1091010
T1/E1/PRI Line Card	1091006
16 Port CO Line Card (16COIU)	1091005
8 Port CO Line Card (8COIU)	1091009

IntraMail	
Description	Part Number
IntraMail 8 Port x 16 Hour	1091013
IntraMail 4 Port x 8 Hour	1091011

Replacement Parts	
Description	Part Number
Handset and Cord Assembly	1091016
22 Button Clear Plastic Cover	1091018
34 Button Clear Plastic Cover	1091019
34 Button Super Display Clear Plastic Cover	1091020
60 Button DSS Clear Plastic Cover	1091021
RFI Bead Kit	88901
Replacement Battery for CPU Card	EX0254-0040



# DS-Series to DSX Program Cross Reference

## Cross Reference From DS-Series to DSX

**DS-Series to DSX Cross Reference Chart**

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
0101	<b>Class of Service Option</b>	
	Off Premise Call Forward . . . . .	1406-01
	Barge-in (intrusion) . . . . .	1402-02
	Camp-On to Busy Extension . . . . .	1402-03
	Internal Call Forwarding . . . . .	1406-02
	System Speed Dial Access . . . . .	1401-01
	Extended Ring . . . . .	1401-02
	Privacy . . . . .	1401-03
	Trunk (Line) Queuing Priority . . . . .	1411-02
	Forced Trunk Disconnect . . . . .	1402-01
	Camp-On to Busy Line . . . . .	1411-01
	Initiate All Call Page . . . . .	1407-01
	Access Page Zone 1 . . . . .	1407-02
	Access Page Zone 2 . . . . .	1407-03
	Access Page Zone 3 . . . . .	1407-04
	Access Page Zone 4 . . . . .	1407-05
	Access Page Zone 5 . . . . .	1407-06
	Access Page Zone 6 . . . . .	1407-07
	Access Page Zone 7 . . . . .	1407-08
	Silent Monitor . . . . .	1402-04
	Flash for Single Line Sets . . . . .	1403-01
ACD Supervisor . . . . .	1401-04	
Single Ring for Single Line Sets . . . . .	1403-02	

## Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
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	View System Alarms	
	Automatic Hold . . . . .	1411-03
	Activate Night Mode . . . . .	1402-05
	Direct Trunk Access . . . . .	1402-06
	Remote Call Forwarding/Alternate Attendant	
	Soft Keys . . . . .	1401-05
	Conversation Record . . . . .	1401-06
	CLID Display . . . . .	1404-01
	2nd Call CLID (Extension Level Call Waiting Caller ID) . . . .	1404-02
	3rd Party Caller ID . . . . .	1404-03
	CLID Display Separator . . . . .	1404-04
	Forced Account Codes . . . . .	1412-04
	Verify Account Codes . . . . .	1412-05
	Forced Account Codes for Toll Calls Only . . . . .	1412-06
	Ring Type Configuration . . . . .	1405-01
	Extension Ring Override . . . . .	1405-02
	Key Ring Override . . . . .	1405-03
	SLT Special Dial Tone . . . . .	1403-03
	SLT High Voltage Message Waiting . . . . .	1403-04
	SLT FSK Message Waiting . . . . .	1403-05
	SLT Loop Disconnect . . . . .	1403-06
	Enhanced LND . . . . .	1411-04
	Day Walking Class of Service . . . . .	1412-01
	Night Walking Class of Service . . . . .	1412-02
	Extension Locking . . . . .	1412-03
	DND Override . . . . .	1401-07
	Unsupervised Conference . . . . .	1411-05
	Allow DID Calls . . . . .	1401-08
	DID Camp On . . . . .	1401-09
	Outgoing ANI Privacy . . . . .	1404-05
	Caller ID Alert Lamp . . . . .	1404-06
	Allow Name Programming . . . . .	1401-10
	Allow Language Programming . . . . .	1401-11
	Call Screening . . . . .	1401-12
<b>0201</b>	<b>Tenant Option Programming</b>	
	Call Waiting (Camp-On) Tone . . . . .	1512-02
	Handsfree Reply on Intercom Calls . . . . .	1513-02
	Voice Announced Intercom Calls . . . . .	1513-01
	Automatic Handsfree . . . . .	1512-01
	Music On Hold . . . . .	1521-01
	MOH on Transfer . . . . .	1521-02
	Background Music . . . . .	1521-03
	Enable Account Codes in Speed Dial . . . . .	1541-02
	# Key to Enter Account Codes . . . . .	1541-01
	Account Code Toll Level . . . . .	1541-04
	View Account Codes . . . . .	1541-03
	Name Format . . . . .	1511-01
	CPRU Relay	
	CPRU Relay Page Zone Assignment	
	Door1 Relay . . . . .	2101-06
	Door1 Relay Page Zone Assignment	
	Door2 Relay . . . . .	2101-06
	Door2 Relay Page Zone Assignment	



## Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
<b>0202</b>	<b>Ring Over External Page Options</b>	
	Background Music Over External Page . . . . .	1521-04
	Door Chime Over External Page . . . . .	1531-04
	Page Ring Volume . . . . .	1531-03
	External Page Ring Source (Type?) . . . . .	1531-01
	Extension . . . . .	1531-02
<b>0203</b>	<b>UNA Ringing Over External Page</b>	
	Trunk Port . . . . .	1532-01
	UNA Ringing Option	
<b>0301</b>	<b>System Options (Part 1)</b>	
	Number of Operators . . . . .	1501-01
	Operator 1 Extension . . . . .	1502-01
	Operator 2 Extension . . . . .	1502-02
	Operator 3 Extension . . . . .	1502-03
	Operator 4 Extension . . . . .	1502-04
	Number of Digits in a System Speed Dial Code . . . . .	1701-01
	A-Law Companding	
	CPU Baud Rate . . . . .	1111-01
	Fixed Baud Rate	
	Modem Installed	
	SMDR Port . . . . .	1541-01
	Print SMDR Header . . . . .	1541-02
SMDR Language . . . . .	1541-03	
<b>0302</b>	<b>System Identification</b>	
	Company Name . . . . .	1011-01
	Company Phone Number . . . . .	1011-02
	System Type . . . . .	1001-01
	Software Version . . . . .	1001-02
	Time . . . . .	1021-01
	Date . . . . .	1021-02
	Daylight Savings Time Adjustment . . . . .	1022-01
Time and Date Format . . . . .	1511-02	
<b>0401</b>	<b>System Timers</b>	
	Park Recall . . . . .	1603-04
	Modem Reserve	
	Transfer Recall . . . . .	1603-01
	Intercom Inter-digit . . . . .	1602-01
	Meet-Me Conference . . . . .	1605-02
	Dialing Pause . . . . .	1602-04
	Page Duration . . . . .	1605-01
	Door Unlock . . . . .	1605-03
	DIL No Answer . . . . .	1601-02
	Trunk Revert . . . . .	1601-01
	Trunk Delay Ring . . . . .	1604-01
	Trunk Overflow	
	Centrex Type Feature Key Delay	
	ACD/UCD Overflow . . . . .	1601-04
	Number of Password Attempts	
	Program Lockout Time . . . . .	N/A
	Force Program Exit . . . . .	1605-04
	Auto Redial Retry Timer . . . . .	1602-06
	Auto Redial Busy Timer . . . . .	1602-07

Cross Reference

## Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference			
DS Program	DS Program Description	DSX Program	
0402	<b>Trunk Timers</b>		
	Camp-On		
	Line Response . . . . .	1602-02	
	Dial Tone Detect . . . . .	1602-03	
	PBX/Centrex Flash . . . . .	1612-04	
	Flash Disconnect . . . . .	1612-05	
	Force Idle (Trunk Guard Time) . . . . .	1602-05	
	PBX Pause		
	Minimum Ring Detection Timer . . . . .	1611-01	
	DP Make Timer . . . . .	1612-02	
	DP Break Timer . . . . .	1612-01	
	DP Interdigit Timer . . . . .	1612-03	
	Manual DTMF Tone On . . . . .	1111-01	
	Manual DTMF Tone Off . . . . .	1111-02	
	Speed Dial DTMF Tone On . . . . .	1111-03	
	Speed Dial DTMF Tone Off . . . . .	1111-04	
	Loop Current Detection Time . . . . .	1613-01	
	Far End Disconnect . . . . .	1613-02	
	Minimum Single Ring Detection Timer . . . . .	1611-02	
	Minimum Double Ring Detection Off Timer . . . . .	1611-03	
	Maximum Double Ring Detection Off Timer . . . . .	1611-04	
	Ringing Signal End Detect Timer . . . . .	1611-05	
	Caller ID Detection Timer . . . . .	1611-06	
	Ground Start Timer . . . . .	1612-06	
	Pause Timer		
	DP Mute Timer . . . . .	1612-07	
	P.F. Recovery Detect Timer . . . . .	1613-03	
	0403	<b>Station Timers</b>	
		Hold Recall . . . . .	1603-02
		Exclusive Hold Recall . . . . .	1603-03
Camp-On			
Call Forward Ring No Answer . . . . .		1601-03	
Call Waiting Tone Interval			
Call Coverage Delay . . . . .		1604-02	
Hoof Flash Transfer			
Hook Flash Disconnect			
Number of Extended Rings . . . . .		1604-03	
Drop Pulse Send			
DTMF Detect			
Ring No Answer Hunt			
0404	<b>Analog Station Timers</b>		
	Loop Current . . . . .	1613-01	
	Ringing Frequency		
	Minimum Break Time . . . . .	1621-01	
	Maximum Break Time . . . . .	1621-02	
	Minimum Make Time . . . . .	1621-03	
	Maximum Make Time . . . . .	1621-04	
	Minimum Hookflash Time . . . . .	1621-05	
	Maximum Hookflash Time . . . . .	1621-06	
	Minimum Ground Flash Time		
	Minimum Off-Hook Time . . . . .	1621-07	
Off-Hook Guard Time . . . . .	1621-09		

## Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
	Dial Pulse Guard Timer . . . . .	1621-08
	Loop Disconnect Time . . . . .	1622-01
	Ring/MW Wait Period Time . . . . .	1622-02
<b>0405</b>	<b>T1/E1 Trunk Timers</b>	
	Loop Detection Time . . . . .	1631-01
	Pause Timer	
	Transmit Dial Pulse Break Time . . . . .	1632-01
	Transmit Dial Pulse Make Time . . . . .	1632-02
	Transmit Dial Pulse Interdigit Time . . . . .	1632-03
	Receive Dial Pulse Minimum Make Time . . . . .	1631-04
	Receive Dial Pulse Maximum Make Time . . . . .	1631-05
	Receive Dial Pulse Minimum Break Time . . . . .	1631-02
	Receive Dial Pulse Maximum Break Time . . . . .	1631-03
	Transmit Answer Time . . . . .	1651-03
	Receive Minimum Answer Time . . . . .	1652-05
	Receive Maximum Answer Time . . . . .	1652-06
	Receive Clear Signal Time . . . . .	1631-08
	Transmit Flash Time . . . . .	1632-04
	Receive Flash Minimum Time . . . . .	1631-06
	Receive Flash Maximum Time . . . . .	1631-07
<b>0406</b>	<b>T1 Trunk Timers</b>	
	Minimum Ring Detection Time . . . . .	1641-01
	Single Ring Minimum Detection Time . . . . .	1641-02
	Double Ring Minimum Off Time . . . . .	1641-03
	Double Ring Maximum Off Time . . . . .	1641-04
	Ring Stop Detection Time . . . . .	1641-05
	Transmit Wink Time . . . . .	1642-01
	Receive Wink Minimum Time . . . . .	1642-02
	Receive Wink Maximum Time . . . . .	1642-03
	Transmit Remove Ring Time	
<b>0407</b>	<b>E1 Trunk Timers</b>	
	Forced Release Time . . . . .	1651-04
	Transmit Double Answer Time . . . . .	1651-06
	Receive Double Answer Minimum Time . . . . .	1652-09
	Receive Double Answer Maximum Time . . . . .	1652-10
	Transmit Seize Acknowledge Time . . . . .	1651-01
	Receive Seize Acknowledge Minimum Time . . . . .	1652-01
	Receive Seize Acknowledge Maximum Time . . . . .	1652-02
	Transmit Digit Acknowledge Time . . . . .	1651-02
	Receive Digit Acknowledge Time	
	Receive Digit Acknowledge Minimum Time . . . . .	1652-03
	Receive Digit Acknowledge Maximum Time . . . . .	1652-04
	Receive Meter Pulse Minimum Time . . . . .	1652-07
	Receive Meter Pulse Maximum Time . . . . .	1652-08
	Receive Line Block Minimum Time . . . . .	1652-11
	Receive Line Block Recover Time . . . . .	1652-12
	Transmit Clear Signal Time . . . . .	1632-05
	Transmit Seize Signal Time	
<b>0408</b>	<b>E1 MFC Timers</b>	
	Group A Response Time . . . . .	1654-01
	Group A Tone Complete Time . . . . .	1654-02

Cross Reference

## Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
	Group B Response Time . . . . .	1654-03
	Group B Tone Complete Time . . . . .	1654-04
	Group C Response Time . . . . .	1654-05
	Group C Tone Complete Time . . . . .	1654-06
	Group I Signal Time . . . . .	1653-01
	Group I Tone Complete Time . . . . .	1653-02
	Group II Signal Time . . . . .	1653-03
	Group A Pulse Time . . . . .	1653-04
<b>0501</b>	<b>Numbering Plan</b>	
	Digit 0 Options . . . . .	1301-01
	Digit 1 Options . . . . .	1301-01
	Digit 2 Options . . . . .	1301-01
	Digit 3 Options . . . . .	1301-01
	Digit 4 Options . . . . .	1301-01
	Digit 5 Options . . . . .	1301-01
	Digit 6 Options . . . . .	1301-01
	Digit 7 Options . . . . .	1301-01
	Digit 8 Options . . . . .	1301-01
	Digit 9 Options . . . . .	1301-01
	Single Digit Access	
<b>0502</b>	<b>Station Extension Assignments . . . . .</b>	<b>1311-01</b>
<b>0503</b>	<b>Trunk Extension Assignments . . . . .</b>	<b>1313-01</b>
<b>0505</b>	<b>Extension Swap Utility . . . . .</b>	<b>9031-01</b>
<b>0510</b>	<b>ACD/UCD Master Extension Numbers and Names</b>	
	Group Number . . . . .	1315-01
	Hunt Group Master Number . . . . .	1315-01
	Overflow Destination . . . . .	2302-01
	Name . . . . .	2301-01
	Hunt Group Ring Type . . . . .	2301-02
<b>0511</b>	<b>Ring Group Master Extension Numbers and Names</b>	
	Group Number . . . . .	1314-01
	Name . . . . .	2201-01
	Extension Number . . . . .	1314-01
	Ring Group Ring Type . . . . .	2201-02
<b>0601</b>	<b>Configure Toll Level Options</b>	
	Program Toll Restriction . . . . .	9012-01
	Initialize Toll Restriction . . . . .	9012-01
	Toll Restriction Level	
	Active Dial Pad . . . . .	3511-01
	N11 Dialing . . . . .	3512-04
	0+ Dialing . . . . .	3512-01
	International (011) Dialing . . . . .	3512-02
	Equal Access (101X + XXX) Dialing . . . . .	3512-03
<b>0602</b>	<b>1010 + XXX Equal Access Dialing . . . . .</b>	<b>3521-01</b>
<b>0603</b>	<b>1 + NPA/NXX Dialing 3-Digit Table . . . . .</b>	<b>3531-01</b>
<b>0604</b>	<b>1 + NPA + NXX Dialing 6-Digit Table . . . . .</b>	<b>3541-01</b>

## Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
0605	<b>NPA/NXX Dialing 3-Digit Table</b> .....	3551-01
0606	<b>NPA + NXX Dialing 6-Digit Table</b> .....	3561-01
0610	<b>PBX Access Codes Table</b> .....	3401-01
0801	<b>Selectable Display Messages</b> .....	2501-01
1001	<b>Trunk Port Description</b>	
	Trunk Circuit Type .....	3101-01
	Trunk Extension Number .....	1313-01
	Trunk Name .....	3101-02
	Trunk Transmit Gain .....	3103-01
	Trunk Receive Gain .....	3103-02
	Trunk Class of Service Assignment .....	3102-01
	PBX Line .....	3101-04
	Disable Forced Account Codes .....	3111-01
	Loop Length .....	3103-03
	Trunk Toll Restriction Level .....	3102-02
	Override Extension Toll Restriction .....	3111-02
	Print SMDR .....	3111-06
	Caller ID .....	3121-01
	ANI/DNIS (DS2000 Only) .....	3121-02
	ANI Delimiter (DS2000 Only) .....	3121-03
	Number of ANI digits (DS2000 Only) .....	3121-04
	Voice Mail Caller ID .....	3122-XX
	Dial Tone Detection .....	3111-03
	E1 Signaling Type (DS2000 Only) .....	3101-05
	MFC Dialing Type (DS2000 Only) .....	3101-06
	Enable MFC GB (DS2000 Only) .....	3111-04
	Store and Forward .....	3111-05
1002	<b>Trunk Groups</b>	
	Trunk Group .....	3201-XX
	Order Number .....	3201-XX
1003	<b>Trunk Options</b>	
	Call Pickup Group .....	3113-01
	Direct Termination (Day) .....	3112-01
	Activate Overflow during the Day .....	3112-02
	Day Overflow Destination .....	3112-03
	Direct Termination (Night) .....	3112-04
	Activate Overflow at Night .....	3112-05
	Night Overflow Destination .....	3112-06
	Day Ring Type .....	3113-02
	Night Ring Type .....	3113-03
	Delay Ring Type .....	3113-04
	MOH Source .....	3103-05
	Tandem Trunk .....	3103-04
	Answer Table .....	3131-02
	Dial 9 Group (DS2000 Only) .....	2113-01
	Extension's Operator (DS2000 Only) .....	2114-03
1004	<b>Line Group Access</b> .....	2133-XX
1005	<b>Trunk Caller ID Logging Group</b> .....	3122-XX

Cross Reference

## Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
1006	<b>Trunk Line Access</b> .....	<b>3142-01</b>
1101	<b>System Speed Dial Numbers</b>	
	System Speed Dial Bin .....	1702-XX
	Line/Group/ICM .....	1702-XX
	System Speed Dial Number .....	1702-XX
	System Speed Dial Name .....	1702-XX
1201	<b>Verified Account Codes Table</b> .....	<b>3601-XX</b>
1301	<b>Caller ID Group Configuration</b> .....	<b>3701-XX</b>
1302	<b>Caller ID Outbound Line/Group</b> .....	<b>3711-01</b>
	10 Digit Local Calls .....	3712-02
1303	<b>Home Area (HPNA) Codes</b> .....	<b>3713-XX</b>
1304	<b>Home Area (HPNA) Exception List</b> .....	<b>3714-XX</b>
1305	<b>Foreign Area (FPNA) Exception List Data</b> .....	<b>3715-XX</b>
1401	<b>Number of DID Digits</b> .....	<b>3301-01</b>
1402	<b>DID Translation Table</b> .....	<b>3302-01</b>
1403	<b>DID MFC Dialing Category</b> .....	<b>3302-01</b>
1701	<b>Programmable Function Key Assignments</b>	
	Undefined .....	2121-00
	Switched Loop Key .....	2121-01
	Fixed Loop Key .....	2121-02
	Line Key .....	2121-03
	Park Orbit Key .....	2121-04
	Hotline Key .....	2121-05
	Call Coverage Immediate Ring .....	2121-06
	Call Coverage No Ring .....	2121-07
	Call Coverage Delay Ring .....	2121-08
	Group Pickup Immediate Ring .....	2121-09
	Group Pickup No Ring .....	2121-10
	Group Pickup Delay Ring .....	2121-11
	Page Zone Key .....	2121-13
	System Speed Dial Key .....	2121-14
	Personal Speed Dial Key .....	2121-15
	Call Timer Key .....	2121-16
	Voice Mail Record Key .....	2121-17
	Night Key .....	2121-18
	Data Key	
	Split Key .....	2121-20
	ICM Directory Key .....	2121-21
	ACD Log On Key	
	Reverse Voice Over Key .....	2121-23
	Message Center Key .....	2121-24
	Save Key .....	2121-25
	Account Code Key .....	2121-26
	Call Forwarding .....	2121-27
	Headset Key .....	2121-28

## Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference			
DS Program	DS Program Description	DSX Program	
<b>1702</b>	<b>Personal Speed Dial Key</b>		
	Personal Speed Dial Bin . . . . .	2151-XX	
	Personal Speed Dial Number . . . . .	2151-XX	
	Personal speed Dial Name. . . . .	2151-XX	
<b>1703</b>	<b>DSS Key Assignment</b>		
	Key Number . . . . .	2402-XX	
	BLF Extension Assignment. . . . .	2402-XX	
<b>1704</b>	<b>DSS Console Key Assignment</b>		
	Undefined . . . . .	2402-00	
	Line Key . . . . .	2402-03	
	Park Orbit Key. . . . .	2402-04	
	Hotline Key . . . . .	2402-05	
	Call Coverage Immediate Ring . . . . .	2402-06	
	Call Coverage No Ring . . . . .	2402-07	
	Call Coverage Delay Ring. . . . .	2402-08	
	Group Pickup Immediate Ring . . . . .	2402-09	
	Group Pickup No Ring . . . . .	2402-10	
	Group Pickup Delay Ring . . . . .	2402-11	
	Page Zone Key . . . . .	2402-13	
	System Speed Dial Key . . . . .	2402-14	
	Personal Speed Dial Key . . . . .	2402-15	
	Voice Mail Record Key . . . . .	2402-17	
	Night Key . . . . .	2402-18	
	Data Key		
	Split Key . . . . .	2402-20	
	ICM Directory Key . . . . .	2402-21	
	ACD Log On Key		
	Reverse Voice Over Key . . . . .	2402-23	
	Message Center Key . . . . .	2402-24	
	Save Key . . . . .	2402-25	
	Account Code Key . . . . .	2402-26	
	Call Forwarding. . . . .	2402-27	
	Headset Key. . . . .	2402-28	
	<b>1705</b>	<b>Soft Key Configuration . . . . .</b>	<b>2124-XX</b>
	<b>1801</b>	<b>Extension Port Description</b>	
Extension Circuit Type . . . . .		2101-01	
Extension Numbering . . . . .		1311-01	
Extension Name . . . . .		2101-02	
DSS Type. . . . .		1202-01	
DSS Block Number			
Door Chime. . . . .		2101-04	
Relay Owner . . . . .		2101-06	
Extension Class of Service Assignment . . . . .		2102-01	
Extension Toll Level Day . . . . .		2102-02	
Extension Toll Level Night . . . . .		2102-03	
Access Level . . . . .		2102-04	
DID Station Intercept Destination. . . . .		2115-02	
DID Station Intercept . . . . .		2115-02	

Cross Reference

## Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
1802	<b>Extension Options (Part 1)</b>	
	Do Not Disturb . . . . .	2111-01
	Ring Group Number . . . . .	2113-02
	Call Pickup Group Number . . . . .	2113-03
	Privacy Release Group . . . . .	2113-04
	Off-Hook Signaling for Intercom Calls . . . . .	2116-01
	Off-Hook Signaling for CO Calls . . . . .	2116-03
	Handsfree Reply on Intercom Calls . . . . .	2112-05
	Automatic Handsfree . . . . .	2112-01
	Busy Lamp Field . . . . .	2111-03
	Line Dial Up . . . . .	2111-06
	Station's Dial 9 Group . . . . .	2113-01
	Retain Trunk Volume Setting . . . . .	2111-07
	Key Access to Outbound Lines . . . . .	2111-05
	Page Zone Member . . . . .	2113-05
	BGM . . . . .	2111-02
	Extension's Operator . . . . .	2114-03
	Ring Down Destination . . . . .	2114-02
	Speed Dial Block . . . . .	2111-09
	Answering Machine . . . . .	2111-08
	Outgoing ANI ID (DS2000 Only)	
1803	<b>Extension Line Access Assignments</b>	
	Access Option . . . . .	2131-01
1804	<b>Extension Trunk Group Access</b>	
	Trunk Group Access . . . . .	2133-01
1805	<b>Ring Assignments</b>	
	Ring Assignment . . . . .	2132-01
1806	<b>Ring Type Configuration</b>	
	Day Ring Type . . . . .	2103-01
	Night Ring Type . . . . .	2103-02
	Delay Ring Type . . . . .	2103-03
	Initialize Ring Type	
1807	<b>Extension Features (Part 2)</b>	
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<b>8002</b>	<b>Voice Mail Options (Part 1)</b>	
	Name . . . . .	4111-01
	Class of Service . . . . .	4111-02
	Toll Restriction Level (Day) . . . . .	4111-03
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	Operator . . . . .	4112-02
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Cross Reference

## Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
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	Mailbox Type. . . . .	4101-01
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	Screened Transfer Timeout . . . . .	4224-03
	Time Limit for Dialing Commands. . . . .	4224-02
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	Mailbox Active . . . . .	4221-01
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	Extension Name Match . . . . .	4224-04
	Unscreened or Screened Transfer . . . . .	4224-06
	Screened Transfer Timeout . . . . .	4224-03
	Time Limit for Dialing Commands. . . . .	4224-02
	Fax Detection . . . . .	4224-08
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<b>8007</b>	<b>IntraMail Answer Tables</b>	
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	Answer Schedule Override . . . . .	4211-02
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	Next Answer Table . . . . .	4211-04
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	Routing Mailbox Number . . . . .	4212-XX-XX
	Day of the Week . . . . .	4212-XX-XX
	Schedule Start Time . . . . .	4212-XX-XX
	Schedule Stop Time. . . . .	4212-XX-XX
	Type 2: (Range of Days)	
	Routing Mailbox Number . . . . .	4212-XX-XX
	Schedule Start Day . . . . .	4212-XX-XX
	Schedule End Day . . . . .	4212-XX-XX
Schedule Start Time . . . . .	4212-XX-XX	
Schedule Stop Time. . . . .	4212-XX-XX	

## Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
	Type 3: (Range of Days)	
	Routing Mailbox Number . . . . .	4212-XX-XX
	Schedule Run Date . . . . .	4212-XX-XX
	Schedule Start Time . . . . .	4212-XX-XX
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<b>8008</b>	<b>IntraMail Dial Action Tables</b>	
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	Digit "3" . . . . .	4231-XX-03
	Digit "4" . . . . .	4231-XX-04
	Digit "5" . . . . .	4231-XX-05
	Digit "6" . . . . .	4231-XX-06
	Digit "7" . . . . .	4231-XX-07
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	Digit "9" . . . . .	4231-XX-09
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<b>9803</b>	<b>Ring Tone Setup</b>	
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<b>9804</b>	<b>Initialize Caller ID Log Utility. . . . .</b>	<b>9013-01</b>
<b>9901</b>	<b>Reset Station Port . . . . .</b>	<b>9002-01</b>
<b>9902</b>	<b>Set Up Stations (DS1000)</b>	
<b>9902</b>	<b>Set Up Stations (DS2000)</b>	
	Slot?	
	Install	
	Swap	
	Remove	
	Ports	
<b>9903</b>	<b>Set Up Trunks (DS1000)</b>	
<b>9903</b>	<b>Set Up Trunks (DS2000)</b>	
<b>9904</b>	<b>T1/E1 Configuration</b>	
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	Transmit Pulse Amplitude . . . . .	1213-03
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**Cross  
Reference**

## Cross Reference From DS-Series to DSX

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9907	Database Load .....	9042-01
9908	PC Card Erase Utility	
9988	DS1000 Database Transfer Utility	
9998	Regional Defaults	
9999	System Initialization. ....	9011-01

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