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You can read the recommendations in the user guide, the technical guide or the installation guide for NEC DSX-80. You'll find the answers to all your questions on the NEC DSX-80 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NEC DSX-80
User guide NEC DSX-80
Operating instructions NEC DSX-80
Instructions for use NEC DSX-80
Instruction manual NEC DSX-80

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Upgrading from DS2000 to DSX-80/160

If upgrading from DS2000 to DSX-80/160, be sure to carefully review *Upgrading DS2000 to DSX-80/160* (P/N 1093077) prior to the upgrade.

Components
Installation
Optional
Equipment
Specifications
and Parts

DSX

**DSX-80/160 Hardware
Manual**

P/N 1093096

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Unique features include dual LEDs, a Ring/Message Lamp (to show ringing, Caller ID, and voice mail messages), built-in wall mounting, and an innovative two position angle adjustment. 34-Button Backlit Display Telephone with Speakerphone P/Ns 1090021 (Black) and 1090026 (White) At a Glance Display: 3 line x 24 character Soft Keys: 4 Feature Keys: 24 Fixed Function Keys: 12 Speed Dial Bin Keys: 10 Headset jack: RJ-10 built-in Speakerphone: Built-in, half-duplex Wall Mount: Built-in Angle Adjustment: 2 position built-in Backlit: Yes Dual LEDs: Yes The 34-Button Display Telephone features a large 3 line-by-24 character backlit alphanumeric display with 4 Interactive Soft Keys for intuitive feature access. It also provides 10 Personal Speed Dial bin keys, 24 programmable Feature Keys and 12 fixed function keys for streamlined operation. Additionally, this telephone offers a backlit keypad, a headset jack, and built-in speakerphone. Unique features include dual LEDs, a Ring/Message Lamp (to show ringing, Caller ID, and voice mail messages), built-in wall mounting, and an innovative two position angle adjustment. DSX-80/160 Hardware Manual Components 1 DSX Telephones 34-Button Backlit Display Telephone with Full-Duplex Speakerphone P/Ns 1090022 (Black) and 1090027 (White) At a Glance Display: 3 line x 24 character Soft Keys: 4 Feature Keys: 24 Fixed Function Keys: 12 Speed Dial Bin Keys: 10 Headset jack: RJ-10 built-in Speakerphone: Built-in, full-duplex Wall Mount: Built-in Angle Adjustment: 2 position built-in Backlit: Yes Dual LEDs: Yes This feature-rich 34-Button Display Telephone features a large 3 line-by-24 character backlit alphanumeric display with 4 Interactive Soft Keys for intuitive feature access. It also provides 10 Personal Speed Dial bin keys, 24 programmable Feature Keys and 12 fixed function keys for streamlined operation. Additionally, this telephone offers a built-in full duplex speakerphone (with no external speaker or microphone required), a backlit keypad, and a headset jack. Unique features include dual LEDs, a Ring/Message Lamp (to show ringing, Caller ID, and voice mail messages), built-in wall mounting, and an innovative two position angle adjustment. 34-Button Backlit Super Display Telephone with Half-Duplex Speakerphone P/Ns 1090030 (Black) and 1090031 (White) At a Glance Display: 9 line x 24 character Soft Keys: 12 Feature Keys: 24 Fixed Function Keys: 12 Speed Dial Bin Keys: 10 Headset jack: RJ-10 built-in Speakerphone: Built-in, half-duplex Wall Mount: Built-in Angle Adjustment: 2 position built-in Backlit: Yes Dual LEDs: Yes The Super Display Telephone is the system's most sophisticated telephone instrument.

It features a large 9 line-by-24 character backlit alphanumeric display with 12 Interactive Soft Keys for intuitive feature access. It also provides 10 Personal Speed Dial bin keys, 24 programmable Feature Keys and 12 fixed function keys for streamlined operation. Additionally, this telephone offers a built-in half duplex speakerphone (with no external speaker or microphone required), a backlit keypad, and a headset jack. Unique features include dual LEDs, a Ring/Message Lamp (to show ringing, Caller ID, and voice mail messages), built-in wall mounting, and an innovative two position angle adjustment.

60-Button DSS Console P/Ns 1090024 (Black) and 1090029 (White) At a Glance Feature Keys: 60 Fixed Function Keys: 3 Dual LEDs: No Wall Mount: Built-

in Angle Adjustment: 2 position built-in The 60-Button DSS Console provides a display keyset with a 60-button Busy Lamp Field (BLF) and one button access to extensions, trunks, and selected system features. Enhanced by Answer, Release, and Transfer fixed function keys, the 60-Button DSS Console is a great time saver for users that do a lot of call processing (such as operators or dispatchers). By default, the DSS Console is set up with Hotline keys to extensions and 14 feature keys for quick access to Page, Park and the system Night Mode Note: DSX80/160 supports DS1000/2000 telephones if the system has a DSTU Card (P/N 80021A) installed. 2 Components DSX-80/160 Hardware Manual Single Line Telephones Single Line Telephones DTH-1-1 Single Line Telephone Components P/N 780034 (Black) At a Glance Fixed Function Keys: 5 Speed Dial Bin Keys: 4 Selectable Ring Tones: Yes Message Waiting: Yes Ring/Message Waiting Lamp: Yes Wall Mount: Built-in The DTH-1-1 is a cost-effective analog single line telephone that offers 5 fixed feature keys, 4 Speed Dial bin keys and Message Waiting.



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DSX-80/160 Hardware Manual Components 7 Headsets Headsets for DSX Cordless Lite II Telephone P/N 750637 (M175) P/N 750642 (MX150) At a Glance The following headsets are available for the DSX Cordless Lite II Telephone: · M175 Headband Style (P/N 750637) · MX150 Earloop Style (P/N 750642) 8 Components DSX-80/160 Hardware Manual DESI Telephone Label System DESI Telephone Label System DESI Labeling Software Components DESI Labeling Software At a Glance DESI Labeling Software is a Windows-compatible application for printing customized key data on specially designed DESI telephone labels. Use DESI Labeling Software to create quick, professional custom labels that can be printed on virtually any office ink jet or laser printer. DESI Labeling Software features: · Automatic extension numbering · Label templates that can be saved for later use · Copy and paste functions · Perforated and die cut labels for a perfect fit · Choice of fonts and font colors · Space for incorporating company logo · User-printable background graphics (using DESI Preprint) DESI labeling software is provided on the DSX System Document CD included with each telephone system. DESI Telephone Labels Labels for DSX Telephones Labels for NEC Single Line Telephones At a Glance The following DESI labels are available for DSX telephones. · For standard "replacement" applications: - 22-Button Display Standard - 34-Button Display Standard - 34-Button Super Display Standard - 60-Button DSS Console Standard The following DESI labels are available for the NEC analog single line telephones. · For DTR-1-1 - Black (P/N 780400) - Metallic green (P/N 780401) - Metallic silver (P/N 780402) - Lime green (P/N 780403) - Preprint (blank) (P/N 780459) DSX-80/160 Hardware Manual Components 9 DESI Telephone Label System · For DTR-1HM-1 - Black (P/N 780404) - Metallic green (P/N 780405) - Metallic silver (P/N 780406) - Lime green (P/N 780407) - Preprint (blank) (P/N 780460) · For DTH-1-1 - Metallic silver (P/N 780450) 10 Components DSX-80/160 Hardware Manual DSX-80/160 Common Equipment DSX-80/160 Common Equipment DSX-80 4-Slot KSU Components P/N 1090002 At a Glance Slots: 4 Ports: 80 Digital extensions (max.): 32 · Analog extensions (max.

): 48 Analog lines (max): 48 Digital (T1) lines (max.): 64 Capacities determined by System Load Factor. Always install a 16ESIU Card in the first universal slot. The DSX-80 4-Slot KSU contains the CPU, 4 universal card slots and the system's power supply. It provides 80 ports. It is wall-mountable, has a flip off cover and removable side panel for easy access. The cabinet has a handy translucent panel in the cover that allows you to get essential system status and troubleshooting information at a glance, without removing the cover. DSX-160 8-Slot KSU P/N 1090003 At a Glance Slots: 8 Ports: 160 Digital extensions (max.): 96 · Analog extensions (max.): 112 Analog lines (max): 64 Digital (T1) lines (max.

): 64 Capacities determined by System Load Factor. Always install a 16ESIU Card in the first universal slot. Install one power supply for every two 16ESIU Cards. The DSX-160 8-Slot KSU contains the CPU slot, 8 universal card slots and up to 3 system power supplies (depending on Load Factor requirements). It provides 160 ports.

Just like the DSX-80 4-Slot KSU, the DSX160 is wall-mountable, has a flip off cover and removable side panel for easy access. The DSX-160 also has a translucent panel in the cover for getting essential system status and troubleshooting at a glance DSX-80/160 Power Supply P/N 1091008 At a Glance DSX-80 Qty: 1 · DSX-160 Qty: 3 (max.) Quantity required in DSX-160 determined by System Load Factor. In DSX-160, Install one power supply for every two 16ESIU Cards. The power supply provides the various DC voltages required to power the DSX-80/160 Cards.

The DSX-80 4-Slot KSU requires a single power supply. The DSX-160 8-Slot KSU requires up to 3 power supplies, depending on system configuration. DSX-80/160 Hardware Manual Components 11 DSX-80/160 CPU DSX-80/160 CPU DSX-80/160 CPU Card P/N 1090010 At a Glance Audio Inputs: 2 Audio outputs: 1 USB connector: Yes RS 232 connector: Yes (for SMDR) Ethernet port: Yes CompactFlash interface: Yes The CPU Card is the system's control center. It provides the system's Linux operating system, central processing, stored program, and memory for the customer's site-specific data. Every system requires a CPU Card. In addition, it also provides: · CompactFlash card interface (for IntraMail, software loading, and database backup) · Conference circuits, DTMF receivers and DTMF generators · Real Time Clock · NAND Flash for storing the system database · Battery for short term (14 day) backup of the Real Time Clock and station parameters · Two audio inputs for Background Music and Music on Hold (1/8" mono minijacks) · One audio output for External Paging (1/8" mono minijack) · Ethernet and USB ports for local and remote PC Programming · RS-232 serial port for Station Message Detail Recording · Built-in V.32BIS 14.4K BPS modem for remote maintenance The CPU also has a reset switch that provides the following three functions: 1. System reset (when momentarily pressed). 2.

System initialization (when held down as power is turned on). 3. Software update (when held down for six seconds while software update CompactFlash card is installed). Tips to remember: · When connecting to the CPU audio inputs or outputs, make sure the connected device is compatible with the CPU audio specifications. See Specifications and Parts (page 71) for more. 12 Components DSX-80/160 Hardware Manual DSX-80/160 Station Cards DSX-80/160 Station Cards DSX-80/160 16 Port Digital Station (16ESIU) Card Components P/N 1091004 At a Glance Digital station ports: 16 Mode switch: Yes Max. installed in DSX-80: 2 (32 station ports) Status LED: Yes Activity LED: Yes Max. installed in DSX-160: 6 (96 station ports) Each 16ESIU Card connects 16 digital extensions (i.e., DSX keysets).

The 16ESIU has a Mode Switch (for taking the card out of service). It also has a status LED that indicates proper card operation -- as well as a port activity LED that flashes faster as traffic on the card increases. You can install up to two 16ESIU Cards in a DSX-80. You can install up to six 16ESIU Cards in a DSX-160. See System Configuration (page 19) for more.

Tips to remember: · In DSX-160, you must install a separate power supply for every two 16ESIU Cards installed. · In both DSX-80 and DSX-160, you must install a 16ESIU Card in slot 1. · You can install additional 16ESIU Cards in any slot. DSX-80/160 16 Port Analog Station (16SLIU) Card with HV Message Waiting P/N 1091007 At a Glance Analog station ports: 16 High Voltage Message Waiting: Yes Max.



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installed in DSX-80: 3 (48 station ports) Max.

installed in DSX-160: 5 (80 station ports) Activity LED: Yes Mode switch: Yes Status LED: Yes The 16SLIU Card connects 16 analog extensions which are typically used for single line telephones and fax machines. Just like the 16ESIU Card, the 16SLIU Card has a Mode Switch (for taking the card out of service), a status LED indicating proper card operation, and a port activity LED to indicate traffic on the card. See System Configuration (page 19) for more. Tips to remember: · The 16SLIU Card provides high voltage message waiting for single line sets with high voltage message waiting lamps. · The 16SLIU Card also provides Caller ID to single line sets. · You can install a 16SLIU Card in any slot except slot 1. DSX-80/160 Hardware Manual Components 13 DSX-80/160 Station Cards DSX-80/160 8 Port Analog Station (8SLIU) Card with HV Message Waiting P/N 1091010 At a Glance Analog station ports: 8 High Voltage Message Waiting: Yes Max. installed in DSX-80: 3 (24 station ports) Max. installed in DSX-160: 7 (56 station ports) Activity LED: Yes Mode switch: Yes Status LED: Yes The 8SLIU Card connects 8 analog extensions which are typically used for single line telephones and fax machines. The 8SLIU Card has a Mode Switch (for taking the card out of service), a status LED indicating proper card operation, and a port activity LED to indicate traffic on the card.

See System Configuration (page 19) for more. Tips to remember: · The 8SLIU Card provides high voltage message waiting for single line sets with high voltage message waiting lamps. · The 8SLIU Card also provides Caller ID to single line sets. · You can install a 8SLIU Card in any slot except slot 1. 14 Components DSX-80/160 Hardware Manual DSX-80/160 Line Cards DSX-80/160 Line Cards DSX-80/160 T1/E1/PRI Line Card Components P/N 1091006 At a Glance Line ports: 24 Mode switch: Yes Status LED: Yes Max. installed in DSX-80: 3 (64 line ports in 3 T1/E1/PRI Cards, with 8 T1 circuits disabled in programming) Activity LED: Yes Diagnostic LEDs: Yes CSU required: Yes Max. installed in DSX-160: 3 (64 line ports in 3 T1/E1/PRI Cards, with 8 T1 circuits disabled in programming) The T1/E1/PRI Line Card provides T1 advanced digital calling and gives the DSX-80/160 a maximum of 24 trunks in a single card slot. The available T1 line types include: · Loop Start (DTMF and Dial Pulse) · Ground Start (DTMF and Dial Pulse) · Direct Inward Dialing (DID) Wink Start (DTMF and Dial Pulse) · Direct Inward Dialing (DID) Immediate Start (DTMF and Dial Pulse) · E&M Tie Line Wink Start (DTMF and Dial Pulse) · E&M Tie Line Immediate Start (DTMF and Dial Pulse) Tips to remember: · Normally you connect the T1/E1/PRI Card to a separately-purchased Channel Service Unit (CSU). Use a standard straight-through CAT 5 cable to connect the T1/E1/PRI Card to the CSU. The CSU in turn connects to the telco smart jack.

· The T1/E1/PRI Card also provides 32E1 support. E1 is not used in North America. · PRI is currently not available. · You can install a T1/E1/PRI Card in any slot except slot 1. DSX-80/160 16 Port CO Line (16COIU) Card with Caller ID P/N 1091005 At a Glance Line ports: 16 Mode switch: Yes Power Failure ports: 2 Max.

installed in DSX-80: 3 (48 lines in 3 16COIU Cards) Status LED: Yes Activity LED: Yes Caller ID: Built in Max. installed in DSX-160: 4 (64 line ports in 4 16COIU Cards) The 16COIU Card supports 16 analog loop start CO lines. The card has a Mode Switch (for taking the card out of service), a status LED indicating proper card operation, and a port activity LED that indicates traffic on the card. Each 16COIU Card also provides two power failure cut-through circuits. When commercial AC power fails, the Card automatically cuts through two line circuits to two power failure single line telephones.

See System Configuration (page 19) for more. Tips to remember: · The 16COIU provides built-in Caller ID. · You can install a 16COIU Card in any slot except for slot 1. DSX-80/160 Hardware Manual Components 15 DSX-80/160 Line Cards DSX-80/160 8 Port CO Line (8COIU) Card with Caller ID P/N 1091009 At a Glance Line ports: 8 Mode switch: Yes Power Failure ports: 2 Max. installed in DSX-80: 3 (24 line ports in 3 8COIU Cards) Status LED: Yes Activity LED: Yes Caller ID: Built in Max. installed in DSX-160: 7 (56 line ports in 7 8COIU Cards) The 8COIU Card supports 8 analog loop start CO lines. The card has a Mode Switch (for taking the card out of service), a status LED indicating proper card operation, and a port activity LED that indicates traffic on the card. Each 8COIU Card also provides two power failure cut-through circuits. When commercial AC power fails, the card automatically cuts through two line circuits to two power failure single line telephones. See System Configuration (page 19) for more.

Tips to remember: · The 8COIU provides built-in Caller ID. · You can install a 8COIU Card in any slot except for slot 1. 16 Components DSX-80/160 Hardware Manual IntraMail IntraMail DSX IntraMail 8 x 16 Components P/N 1091013 At a Glance Ports: 8 Routing Mailboxes: 16 Ring Group Mailboxes: 8 Total Mailboxes: 160 Storage Hours: 16 Subscriber Mailboxes: 128 UCD Group Mailboxes: 8 DSX IntraMail 4 x 8 P/N 1091011 At a Glance Ports: 4 Routing Mailboxes: 16 Ring Group Mailboxes: 8 Total Mailboxes: 160 Storage Hours: 8 Subscriber Mailboxes: 128 UCD Group Mailboxes: 8 IntraMail is a plug-in "in-skin" full-featured, DSP-based integrated Voice Mail with Automated Attendant for DSX. It is available in two models: · P/N 1091013 with 8 Voice Mail ports, 16 hours of message storage, and up to 160 mailboxes. · P/N 1091011 with 4 Voice Mail ports, 8 hours of message storage, and up to 160 mailboxes. The IntraMail Automated Attendant answers incoming calls and routes them quickly and efficiently. Integrated Voice Mail features include Conversation Record, Answering Machine Emulation, and Caller ID with Return Call. Interactive Soft Keys guide the display telephone user through the extensive IntraMail feature set. Tips to remember: · After plugging in the IntraMail CompactFlash card, IntraMail automatically installs on power-up. DSX-80/160 Hardware Manual Components 17 Miscellaneous Cards and Optional Equipment Miscellaneous Cards and Optional Equipment DSX Analog Door Box P/N 922450 At a Glance Requires 2PGDAD Module connected to DSX Digital Station (16ESIU) PCB.

DSX-80/160: No built-in Door Box ports. The Analog Door Box is a self-contained Intercom unit typically used to monitor an entrance door. A visitor at the door can press the Door Box call button (like a door bell). The Door Box then sends chime tones to all extensions programmed to receive chimes. To answer the chime, the called extension user just lifts the handset.



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This lets the extension user talk to the visitor at the Door Box. The Door Box is convenient to have at a delivery entrance, for example. It is not necessary to have company personnel monitor the delivery entrance; they just answer the Door Box chimes instead. Tips to remember: · The Analog Door Box is a weather-tight unit and can be mounted outside. · The maximum number of DSX Analog Door Boxes you can install is determined by the number of 2PGDAD Modules, which in turn is limited only by the availability of 16ESIU station ports.

DSX 2PGDAD Module At a Glance P/N 0891027 Provides connection and relays for two DSX Analog Door Boxes. Connects to port on DSX Digital Station (16ESIU) PCB. The DSX 2PGDAD Module provides connection and relays for two DSX Analog Door Boxes. This module connects to an available port on a DSX Digital Station (16ESIU) PCB. Tips to remember: · The maximum number of DSX Analog Door Boxes you can install is determined by the number of 2PGDAD Modules, which in turn is limited only by the availability of 16ESIU station ports. 18 Components DSX-80/160 Hardware Manual System Configuration System Configuration DSX-80/160 System Load Factor Components The combination of lines and extensions you can connect to your DSX system may be limited by the System Load Factor. Use the DSX-80/160 System Load Factor Worksheet on the next page to verify your system's configuration. When entering data on the worksheet, 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. DSX-80/160 Hardware Manual Components 19 System Configuration DSX-80/160 System Load Factor Worksheet Load Type Description Qty Load 5 VDC Total Load 40 VDC Total CPU Card 16ESIU Card 8SLIU Card 16SLIU Card 8COIU Card 16COIU Card T1/E1/PRI Card 1 12 8 5 10 3 6 8 12 0 20 8 16 0 0 0 0 Item 1: Load Type Totals (Cannot exceed Item 2: Power Supply Capacity.) Item 2: Power Supply Capacity If you have one power supply installed, the capacity is: If you have two power supplies installed, the capacity is: If you have three power supplies installed, the capacity is: Notes: 5 VDC = 40 5 VDC = 80 5 VDC = 120 40 VDC = 48 40 VDC = 80 40 VDC = 120 DSX-80 can only have 1 power supply.

DSX-160 can have up to 3 power supplies. You cannot have more than two 16ESIU Cards per power supply, regardless of System Load Factor calculations. 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. The total of all station, line, DSS Console, and voice mail ports cannot exceed 160. 20 Components DSX-80/160 Hardware Manual Installation Installation System Preparation System Preparation Unpacking Unpack the equipment and check it against your equipment lists.

Inspect for physical damage. If you are not sure about a component's function, review Components (page 1). Contact your Sales Representative if you have additional questions. Have the appropriate tools for the job on hand, including: a test set, a punch down tool and a digital voltmeter. Before Installing Make sure you have a building plan showing the location of the common equipment, extensions, the telco demarcation and earth ground. In addition, the installation site must meet the requirements outlined in the Standard Practices Manual. Site Requirements The common equipment is contained in the wall-mounted Main Equipment Cabinet. Choose a central location for the cabinet that allows enough space for the equipment -- and provides enough room for you to comfortably work. Figure 1: Installation Layout, DSX-80 (page 22) and Figure 2: Installation Layout, DSX-160 (page 23) show you about how much space your system requires. DSX-80/160 Hardware Manual Installation 21 Installing the Main Equipment Cabinet Installing the Main Equipment Cabinet Planning the Installation Before installing the common equipment, you should mount a Main Distribution Frame (MDF) plywood backboard in a centrally located spot.

A 1/2 sheet of plywood (4' x 4') should be adequate for a DSX-80 4-Slot KSU. A full sheet of plywood (8' x 4') should be adequate for a DSX160 cabinet. Be sure to mount the backboard using suitable fasteners, taking care to adhere to standard installation practices and local codes. See Figure 1: Installation Layout, DSX-80 below and Figure 2: Installation Layout, DSX-160 (page 23) for more. The Main Equipment Cabinet requires a three-prong, dedicated 110 VAC 60 Hz circuit (NEMA 5-15 receptacle). The AC receptacle must be within 7 feet of the cabinet's lower left corner. Normally, you install the extension and line blocks to the right of the cabinet. Telco should also install the RJ21X to the right of the cabinet Important Local codes may prohibit you from installing extensions, trunks and optional equipment in the same blocks. . 4' 1093096 - 14 Plywood backboard Line Block 4' Station Block Station Block To telco ground To earth ground Dedicated AC Outlet Note: The system will respond to telco ring signal in the range of 40-130 VAC @ 20 Hz.

Surge Protector Figure 1: Installation Layout, DSX-80 22 Installation DSX-80/160 Hardware Manual Installing the Main Equipment Cabinet 15 Line Blocks Note: The system will respond to telco ring signal in the range of 40-130 VAC @ 20 Hz. Installation Station Blocks Station Blocks Dedicated AC Outlet Surge Protector To telco ground To earth ground Figure 2: Installation Layout, DSX-160 Removing the Cover Before wall-mounting, remove the cover on the Main Equipment Cabinet. To remove the cover: 1. Unscrew the two captive screws on the front of the cabinet cover. 2.

Lift up slightly on the front of the cover -- then gently slide the cover back to remove it. 80000 12 DSX-80 4-Slot KSU Shown Figure 3: Removing the Cover DSX-80/160 Hardware Manual Installation 23 Installing the Main Equipment Cabinet Unpacking the Wall Mount Bracket The wall mount bracket and screws are taped to the packing material in the Main Equipment Cabinet box.



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Unpack the wall mount bracket and mounting screws. 80 00 0 -1 1 Figure 4: Wall Mount Bracket Mounting the Wall Mount Bracket Mount the wall mount bracket on the MDF in a convenient location, about 12" higher than where you want the bottom of the cabinet to line up. 80000 - 14 Figure 5: Mounting the Wall Mount Bracket 24 Installation DSX-80/160 Hardware Manual Installing the Main Equipment Cabinet Hanging the Cabinet To hang the cabinet: 1. Hang the Main Equipment Cabinet on the wall mount hanger(s) as shown: - See Figure 6: Hanging the DSX-80 4-Slot KSU below when hanging a DSX-80 4-Slot KSU. - See Figure 7: Hanging the DSX-160 8-Slot KSU below when hanging an DSX-160 slot cabinet. 2. Using the remaining screws packed with the hanger, secure the cabinet to the plywood backboard. Installation Figure 6: Hanging the DSX-80 4-Slot KSU Two hangers are provided with the DSX-160 KSU. 80000 - 60 Figure 7: Hanging the DSX-160 8-Slot KSU DSX-80/160 Hardware Manual Installation 25 Grounding the Cabinet Grounding the Cabinet Removing the Right Side Panel Remove the cabinet right side panel to gain easy access to the ground lugs and system cabling. The cabinet has two ground connections: ETH (Earth Ground) and PBXG (PBX Ground). To remove the right side panel: 1. Remove the two screws that secure the right side panel to the cabinet. 2.

Carefully slide the right side panel down until it swings clear of the cabinet. Figure 8: Removing the Right Side Panel 80000 - 16 DSX-80 4-Slot KSU Shown 26 Installation DSX-80/160 Hardware Manual Grounding the Cabinet Attaching the Ground Wire Important You must connect your system to a known earth ground. There are three ground terminations on the KSU: signal, earth, and PBX. You must connect all three terminations to a known good earth ground using 12 AWG stranded copper wire. To attach the ground wires: 1. Remove the lugs on the earth and PBX ground terminations. 2. Crimp ring terminals as required onto two 12 AWG stranded copper ground wires. 3. Install the ring terminals onto the earth and PBX ground terminations and firmly tighten. 4. Connect the other end of the ground wires to a known good earth ground. Important Do not plug in the power cord or reinstall the right side panel until all card installation and cabling are complete. Installation Signal Ground Earth Ground PBX Ground DSX-80/160 Hardware Manual 1093096 - 46 DSX-80 4-Slot KSU Shown To known good earth ground. Figure 9: Attaching the Ground Wires Installation 27 Grounding the Cabinet Installing the RFI Suppressor Assembly You must install an RFI Suppressor Assembly for the CPU audio and ethernet cables.

The suppressor must be mounted inside the cabinet and as close the CPU Card as possible. Figure 10: Installing the RFI Suppressor Assembly 28 Installation DSX-80/160 Hardware Manual Installing the Power Supply Installing the Power Supply Power Supply Installation The power supply provides the DC power sources required to operate the system. To install a power supply: 1. Slide the power supply into the CN101 slot. 2.

Using a long-shaft phillips head screwdriver, tighten the two screws that secure the power supply. A DSX-160 may require up to 3 power supplies (depending on system configuration), using slots CN101, CN102 and CN103. Refer to System Preparation (page 21) for more. When installing multiple power supplies in DSX-160: 1. Install the first supply in slot CN101. 2. Install the second supply in slot CN103. 3. Install the third supply in slot CN102. Installation 9 10 30 96 2 -1 DSX-80 4-Slot KSU Shown Figure 11: Installing the Power Supply Important In case of fire, disconnect the power cord from the AC outlet.

DSX-80/160 Hardware Manual Installation 29 Installing Cards Installing Cards On-Premises Extensions Important Install station equipment connected to ESIU and SLIU Cards as on-premises extensions only. Hot Insertion of Cards Caution · · · Do not plug in the CPU Card hot (i.e., with the system power applied). You can plug in SLIU and COIU Cards hot as required. You can plug in ESIU Cards hot provided you first disconnect the station cabling from the card. Installing the CPU The CPU Card installs in the CN0 slot in the Main Equipment Cabinet. To install the CPU Card: 1. Insert the battery (Sony CR2032 or NEC P/N EX0254-0040) into the battery clips. 2.

Plug the CPU into slot CN0. @@@@It also provides connection for DSS Consoles (four max per system). To install 16ESIU Cards: 1. Plug the 16ESIU Card for extensions 300-315 into slot CN1. 2.

Plug in additional ESIU Cards as required. See System Preparation (page 21) for more. 3. Set the mode switch on each installed 16ESIU Card to RUN. @@@@Each jack connects four extensions.

@@@@@To punch down the cables: 1. @@@@The 8SLIU connects for 8 analog telephones. To install a SLIU Card: 1. @@@@2. Plug a SLIU Card into any available slot from CN2-CN8. - You should reserve CN1 for a 16ESIU Card. 3. @@@@Each jack connects four extensions. @@@@The 8SCOIU connects 8 analog loop start lines. To install a COIU Card: 1.

@@@@2. Plug a COIU Card into any available slot from CN2-CN8. - You should reserve CN1 for a 16ESIU Card. 3. @@@@Each jack connects four lines. @@@@To punch down the cables: For each 66M1-50 block, punch down the Installation Cable in standard color-code order. Lines 1-16

25-PAIR CABLE RJ61X BLOCK TERM 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 COLOR CODE WHT-BLU BLU-WHT WHT-ORN ORN-WHT WHT-GRN GRN-WHT WHT-BRN BRN-WHT WHT-SLT SLT-WHT RED-BLU BLU-RED RED-ORN ORN-RED RED-GRN GRN-RED RED-BRN BRN-RED RED-SLT SLT-RED BLK-BLU BLU-BLK BLK-ORN ORN-BLK BLK-GRN GRN-BLK BLK-BRN BRN-BLK BLK-SLT SLT-BLK YEL-BLU BLU-YEL YEL-ORN ORN-YEL YEL-GRN GRN-YEL YEL-BRN BRN-YEL YEL-SLT SLT-YEL VIO-BLU BLU-VIO VIO-ORN ORN-VIO VIO-GRN GRN-VIO VIO-BRN BRN-VIO VIO-SLT SLT-VIO FUNCTION 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 T R T R T R T R T R T R RJ61X 5 4 3 6 2 7 1 8 5 4 3 6 2 7 1 8 5 4 3 6 2 7 1 8 5 4 3 6 2 7 1 8 5 4 3 6 2 7 1 8 16COIU PCB PCB Location 1 2 3 4 Slot Cabinet shown 4 9T 9R 10 T 10 R 11 T 11 R 12 T 12 R 13 13 14 14 15 15 16 16 T R T R T R T R 3 12 4 To make your own cables, see Making Your Own Cables (page 39). NC 8 DSX-80 4-Slot KSU Shown 1 RJ61X Plug 1093096 - 19 Figure 18: Connecting 16COIU and 8COIU Cards 36 Installation DSX-80/160 Hardware Manual Installing Cards Installing T1/E1/PRI Cards Normally you connect the T1/E1/PRI Card to a separately-purchased Channel Service Unit (CSU). Use a standard straight-through CAT 5 cable to connect the T1/E1/PRI Card to the CSU. The CSU in turn connects to the telco smart jack.

The T1/E1/PRI Card also provides 32E1 support. E1 is not used in North America. You can install a T1/E1/PRI Card in any slot except slot 1.



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A commercially available T1 Tester is recommended. Installation 80061 - 2 Mode switch RX1 T RX1 R TX1 T TX1 R CN9 T1 E1 12345678 RJ48C Connector Pinouts CN7 and CN9 jumpers are not required for T1 installations.

CN9 T1 T1 Grounding Requirements Be sure to run a 12 AWG jumper wire from the SG (Signal Ground) lug to the ETH (Earth Ground) lug. CN7 E1 CN7 RS232 Port RJ48C Connector Telco Smart Jack Straight-Through CAT 5 Cable Figure 19: Setting Up the T1/E1/PRI Card DSX-80/160 Hardware Manual Installation 37 Installing Cards Connecting the T1/E1/PRI Card To install the T1/E1/PRI Card: 1. @.2. Set jumpers CN7 and CN9 to the T1 position. - CN7 and CN9 are not required for T1 installations.

You can optionally leave them off. 3. Plug in T1/E1/PRI Trunk Cards as required. 4. Set the mode switch on each T1/E1/PRI Card to RUN. 5. Using a standard straight-through CAT 5 cable, connect the T1/E1/PRI Card RJ48C connector to your CSU. 80 00 0- 76 DSX-80 4-Slot KSU Shown Figure 20: Connecting the T1/E1/PRI Card 38 Installation DSX-80/160 Hardware Manual Installing Cards Securing the Cables After you have punched down your cables, route them through the side of the cabinet and secure them with the strain relief. 80000 - 33 Installation Figure 21: Securing the Cables Making Your Own Cables Making Your Own Installation Cables The following products should help if you make your own cables. The connector is generally referred to as a RJ45 connector wired in an RJ61X configuration.

Check with your local supplier for other comparable products. Suttle SE-266-8K 8 Position Modular Plug (requires an SE-166 or SE-166-6 modular crimping tool). Hubbell BRFT4P Snap-On 8 Position Modular Plug (does not require a special crimping tool). To 66 Block WHT-BLU (1T) To CPU Mod Jack RJ61X Pin 1 2 3 4 5 6 7 8 80000 - 18C Port Designation 4T 3T 2T 1R 1T 2R 3R 4R BLU-WHT (1R) WHT-ORN (2T) ORN-WHT (2R) WHT-GRN (3T) GRN-WHT (3R) WHT-BRN (4T) Latch faces up Note reversal BRN-WHT (4R) Figure 22: 8-Pin (RJ61X) Jack Pinouts Installation DSX-80/160 Hardware Manual 39 Installing Cards Making a T1/E1/PRI Crossover Cable If you don't have a T1 Tester, you can alternately test Tie Line operation between two T1/E1/PRI Cards in the same cabinet or facility using the cable shown below. Using this same setup, you can loop a Tie Line to a DID Line to test your DID routing before connecting to the CSU. To T1 PCB Latch faces up Pin 1 2 3 4 5 6 7 8 RX1T RX1R TX1T TX1R TX1R TX1R RX1R RX1T Pin 8 7 6 5 4 3 2 1 To T1 PCB 80061 - 3 Connecting Two T1 PCBs Together without a Telco T1 Circuit (For Tie Line Testing) Figure 23: Making a T1/E1/PRI Crossover Cable 40 Installation DSX-80/160 Hardware Manual Connecting Extensions and Setting Up the Telephone Connecting Extensions and Setting Up the Telephone Connecting Extensions Each 16ESIU Card connects 16 digital extensions. Each 16SLIU Card connects 16 analog extensions, and each 8SLIU Card connects 8 analog extensions. To connect extensions: 1. Using Figure 14: Connecting 16ESIU Digital Station Cards (page 32) and Figure 16: Connecting 16SLIU and 8SLIU Cards (page 34) as a guide, plug the installation cable mod jacks into the appropriate connectors on the station cards. 2.

Install a modular jack for each extension within 6 feet of the telephone's location. 3. For each extension, run one-pair 24 AWG station cable from the station block to the modular jack. - To make adds, moves, and changes easier, be sure to leave a service loop in your station cable. 4.

Terminate the station cable WHT/BLU - BLU/WHT leads to the RED and GRN lugs in the modular jack. 5. Install bridging clips as required. ESIU 1093096 - 20 Installation ESIU YEL BLU-WHT BLK WHT-BLU RED GRN SLIU Station Block YEL BLU-WHT BLK 625 Modular Jack WHT-BLU 25-Pair Installation Cable (P/N 80892) RED GRN 625 Modular Jack DSS Console YEL BLU-WHT BLK WHT-BLU RED GRN 625 Modular Jack DSX Keyset DTH-1-1 Figure 24: Connecting Extensions DSX-80/160 Hardware Manual Installation 41 Connecting Extensions and Setting Up the Telephone Installing the DSX Keyset Handset and Line Cord. When installing the handset, plug the handset cord into the handset jack on the bottom of the telephone.

The handset cord routes through the lower channel on the right side of the telephone base. The line cord does not use a channel and drapes down from the telephone line cord jack or connects to the telephone legs. Figure 25: Installing the Handset and Line Cord Installing the DSX Keyset Optional Headset When installing an optional headset, plug the headset cord in the headset jack on the bottom of the telephone. The headset cord routes through the upper channel on the right side of the telephone base. Figure 26: Installing the Optional Headset 42 Installation DSX-80/160 Hardware Manual Connecting Extensions and Setting Up the Telephone Installing the DSS Console Line Cord The DSS Console connects to an available port on an 16ESIU Card, just like a keyset. You can install four maximum per system. The DSS Console line cord does not use a channel and drapes down from the telephone line cord jack or connects to the telephone legs. Line Cord can be installed either way Installation 109309 6 - 23 Figure 27: Installing the DSS Console Line Cord DSX-80/160 Hardware Manual Installation 43 Connecting Extensions and Setting Up the Telephone Keyset and DSS Console Two Position Angle Adjustment To set the low viewing angle position: 1. Fold the legs all the way back. 10 93 09 34 6- 1 Figure 28: Setting the Low Viewing Angle To set the high viewing angle position: 1.

Flip up the two leg supports. 2. Fold the legs back until the leg supports contact the base. 2 10 9 9 30 6 35 1 Figure 29: Setting the High Viewing Angle 44 Installation DSX-80/160 Hardware Manual Connecting Extensions and Setting Up the Telephone Removing the Faceplate You'll need to remove the telephone faceplate to write on the label or install a DESI custom label. To remove the faceplate: 1. Put your finger in the recessed area under the faceplate and lift off the faceplate. Installation 10 0 93 96 - 36 Figure 30: Removing the Telephone Faceplate DSX-80/160 Hardware Manual Installation 45 Connecting Extensions and Setting Up the Telephone To reinstall the faceplate: 1. Snap back into place as shown. Figure 31: Reinstalling the Telephone Faceplate 46 Installation DSX-80/160 Hardware Manual Connecting Lines Connecting Lines Connecting Analog Lines Each 16COIU Card connects 16 loop start CO trunks. Each 8COIU Card connects 8 loop start CO trunks.

To connect analog trunks: 1. Using Figure 18: Connecting 16COIU and 8COIU Cards (page 36) as a guide, plug the installation cable mod jacks into the appropriate connectors on the COIU Cards.



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2. For each line, run one pair cross-connect wire between the line block and the CPE (customer side) of the telco's RJ21X. 3. Install bridging clips as required. Installation One-Pair Cross Connect 1093096 - 21 Line Block Telco RJ21X 25-Pair Cable to Central Office 25-Pair Installation Cable (P/N 80892) Figure 32: Installing Analog Lines Connecting T1 Lines Turn to Installing T1/E1/PRI Cards (page 37). DSX-80/160 Hardware Manual Installation 47 Powering Up the System Powering Up the System Before Powering Up The system's built-in Automatic Slot Configuration automatically sets up station and line cards when you initially power up the system. On power up, the system scans the cards from left to right and sets up the station and line numbering as follows: Extension numbers will begin with 300 in the first slot and increment from left to right. Line numbers will begin with 101 (starting from the first installed COIU or T1/E1/PRI Card) and will also increment from left to right.

For example, in a 16x32, the numbering will be: 1st 16ESIU Card = Extensions 300-315. 2nd 16ESIU Card = Extensions 316-331. 16COIU Card = Lines 101-116. In addition, the system will also automatically set up a station or line card when you plug it in hot. To power up the system: - You do not need to reattach the right side panel before powering up the system. Leaving the right side panel removed makes the station and line cabling more accessible. 1. Make sure the system is properly grounded and the card bracket is reinstalled and secured. 2. Install a surge protector in the AC outlet you intend to use for system power.

3. Plug the main cabinet's AC power cord into its surge protector. 4. Turn on the main cabinet power switch. After about 30 seconds, verify the system LEDs. LED Normal Power-On Status Power Supply CPU Card ESIU, SLIU, and COIU Cards . . . All three LEDs on (green) Top LED winks on (blue) Top LED flashing (slowly green) Bottom LED flashes (yellow) when ports on the card are busy. The faster the flash, the more ports are busy. 48 Installation DSX-80/160 Hardware Manual Powering Up the System System LEDs Power Supply LEDs 1093096 - 13 + 5 V DC (Green) On: +5 V DC power present. Off: +5 V DC power not present. - 5 V DC (Green) On: -5 V DC power present. Off: -5 V DC power not present. -40 V DC (Green) On: -40 V DC power present. Off: -40 V DC power not present. Installation Figure 33: Power Supply LEDs CPU Card LEDs CPU Running (blue) Off: CPU is not functioning. On: System is starting up.

Wink On: System is running. Error (red) Off: No errors present. On: System has an error. USB Port (green) Off: USB port idle. Flashing: Activity on the USB port.

Serial Port (green) Off: Serial port idle. Flashing: Activity on serial port. Ethernet Port (green) Off: Ethernet port idle. Flashing: Activity on Ethernet port. Not Used (yellow) CompactFlash (red) Off: CompactFlash card idle or not installed. On: System is accessing the CompactFlash card. 1093096 - 24 Figure 34: CPU LEDs DSX-80/160 Hardware Manual Installation 49 Powering Up the System Digital Station (ESIU), Analog Station (SLIU), and Analog Line (COIU) Card LEDs Sync Status (green) Fast Flash: PCB running, waiting for sync. Same as having the mode switch set to stop. System has an error. Slow Flash: PCB running, in sync.

Port Activity (yellow) Off: All ports on PCB idle. Flash: Ports are busy. The faster the flash, the more ports are busy. Figure 35: Digital Station (ESIU), Analog Station (SLIU), and Analog Line (COIU) Card LEDs 50 Installation DSX-80/160 Hardware Manual 1093096 - 25 Powering Up the System T1/E1/PRI Card LEDs Port Activity (Yellow) PCB Running (Green) Off: Flash: All ports on PCB idle. Port(s) busy. The faster the flash, the more ports are busy. Slow flash: T1 PCB running. On: T1 PCB starting. Sync (Master) (Green) Off: On: Flash: T1 PCB is in the slave mode (i.e., getting the clock from the connected T1 circuit). T1 PCB is providing the master clock to the telco and is in sync. T1 PCB is providing the master clock but is not in sync. Installation Loop (Slave) (Green) Off: On: Flash: T1 PCB is in the master mode (i.e., providing the clock to the connected T1 circuit). T1 PCB is in sync with the external clock source (and is not providing the master clock). T1 PCB is not in sync with the external clock source (and is not providing the master clock). LOS (Loss of Signal) or Red Alarm (Red) Off: Signal from the connected telco T1 Circuit is present. On: Signal from the connected telco T1 circuit is not present.

An LOS alarm means there is a problem upstream from the T1 PCB. BPV (Bi-Polar Violation) Alarm (Red) This alarm indicates that consecutive "one" pulses have been received in the T1 signal in error. Off: The telco's T1 signal does not contain Bi-Polar Violations. On: The telco's T1 signal is in error. It contains Bi-Polar Violations. A BPV alarm means there is a problem upstream from the T1 PCB. AIS (Alarm Indication Signal) or Blue Alarm (Red) The telco sends an AIS alarm signal to the T1 PCB if the telco receives faulty data from another device on its network (i.e., upstream). It sends the AIS alarm signal to the PCB instead of the faulty data it received.

Off: AIS signal not received from telco. On: AIS received from telco. An AIS alarm means there is a problem upstream from the telco (and upstream from the T1 PCB). Yellow (RAI or Remote Alarm Indication) Alarm (Red) The telco sends an RAI alarm to the T1 PCB if it detects a problem with the T1 signal received from the installation site. The problem can come from the T1 PCB, the CSU (if any), or be caused by faulty cabling. Off: RAI signal not received from telco. On: RAI received from telco. An RAI alarm means there is a problem downstream from the telco (i.e., in the T1 PCB, CSU, or cabling). Telco CSU Upstream from T1 PCB Downstream from T1 PCB T1 PCB Figure 36: T1/E1/PRI Card LEDs DSX-80/160 Hardware Manual Installation 51

Finishing the Installation Finishing the Installation Reinstalling the Side Panel To reinstall the side panel: 1. Carefully realign the right side panel and slide it into position. 2. Reattach the two screws that secure the right side panel to the cabinet. 80000 - 16 A DSX-80 4-Slot KSU Shown Figure 37: Reinstalling the Side Panel 52 Installation DSX-80/160 Hardware Manual Finishing the Installation Reinstalling the Front Cover To reinstall the front cover: 1. Hook the tabs on the rear of the cover into their associated slots. 2. Push the front of the cover into place. 3. Screw in the two captive screws that secure the cover to the cabinet.

Installation Figure 38: Reinstalling the Front Cover 80000 - 12 A DSX-80/160 Hardware Manual Installation 53 Resetting and Initializing the System Resetting and Initializing the System Resetting the System To reset the system: Important If the system's RS-232 connection uses twisted pair cable, before resetting do one of the following: - Make sure the RS-232 cable is connected at both ends (i.



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