

## **2010 Product Catalog**



®

**The Security Professionals' First Choice**

**DSX Access Systems, Inc. 10731 Rockwall Road Dallas, Texas 75238**  
**888-419-8353 Phone 214-553-6140 Phone 214-553-6147 FAX**  
**[www.dsxinc.com](http://www.dsxinc.com)**





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## DSX-1040 Series Intelligent Controller Packages

**\*\* Packages contain all components required to provide a complete controller with the exception of lock power. **Lock Power is ordered separately.** \*\***

**DSX-1048PKG Intelligent 8 Door Package** - Includes one 1040E Enclosure, four 1042 Controllers, one 1040CDM Communication Distribution Module, and one 1040PDP Power Distribution Panel. **Lock Power is ordered separately.**

**DSX-1042PKG Intelligent 2 Door Package** - Includes one 1040E Enclosure, one 1042 Controller, one 1040CDM Communication Distribution Module, and one 1040PDP Power Distribution Panel. Up to three additional Controllers can be added to this package. Any combination of 1042, 1043, and 1044 Controllers can be used.

**DSX-1043PKG Intelligent Output Package** - Includes one 1040E Enclosure, one 1043 Controller, one 1040CDM Communication Distribution Module, and one 1040PDP Power Distribution Panel. Up to three additional Controllers can be added to this package. Any combination of 1042, 1043, and 1044 Controllers can be used.

**DSX-1044PKG Intelligent Input Package** - Includes one 1040E enclosure, one 1044 Controller, one 1040CDM Communication Distribution Module, and one 1040PDP Power Distribution Panel. Up to three additional Controllers can be added to this package. Any combination of 1042, 1043, and 1044 Controllers can be used.

The 1040E Enclosure and 1040CDM is shipped with all of the Controller Packages and can also be purchased separately.

### ***Intelligent Controller Components:***

Each of the Controllers below can be added to the 1042, 1043, and 1044 Packages.

**DSX-1042** Intelligent Two Door I/O Controller up to 4 per 1040E  
8 Inputs, 2 Relay Outputs, 2 Open Collector Outputs, 2 Reader Ports.  
11"W x 4.5"H x 1.5"D – 1.2lb. / 13.5VDC @ 300ma / 512K RAM – 512K Flash ROM

**DSX-1043** Intelligent I/O Controller up to 4 per 1040E  
2 Inputs, 16 Relay Outputs.  
11"W x 4.5"H x 1.5"D – 1.6lb. / 13.5VDC @ 800ma / 512K RAM – 512K Flash ROM

**DSX-1044** Intelligent I/O Controller up to 4 per 1040E  
32 Inputs, 4 Open Collector Outputs.  
11"W x 4.5"H x 1.5"D – 1.2lb. / 13.5VDC @ 550ma / 512K RAM – 512K Flash ROM

**The above DSX manufactured products have a 2-Year Warranty !**





## DSX-1040 Series Components

### *Intelligent Controller Components continued.....*

**DSX-1040E** Six Slot Equipment Enclosure with Lock/Key. Accepts four 1040 series Controllers, one 1040CDM, with one expansion slot.  
15.5"W x 22.5"H x 6.0"D – 19.2lb. / Black Powder Coat

**DSX-1040CDM** Communications Distribution Module 1 required per 1040E  
11"W x 4.5"H x 1.5"D – 1.0lb. / 13.5VDC @ 150ma  
5 – 12VDC Outputs fused @ 1.5A / 1 – 5VDC Output fused @ .5A

**DSX-FRB8** This fused relay board provides 8 - FormC relay outputs fused at 1A. The module requires a constant +12V and a switched negative for activation of each relay. Connects to the open collector output number 2s of the 1042/44 and mounts in the expansion slot of the 1040E enclosure. 11"W x 2.5"H x 1.5"D – .6lb. / 13.5VDC @ 240ma

**DSX-0X4** Four Relay Extender for the DSX-1022 and DSX-1042 Controllers. This module provides four fully functional fused relay outputs. Relays rated at 5A at 30VDC / 125VAC with the common terminals fused at 1A. The module mounts on a 1040E Rail or on 4 Adhesive Standoffs. Communication to the module is RS-232 or RS-485 allowing the module to be 50' (RS-232) to 4000' (RS-485) from the Slave Controller it is connected to. This module can also be connected to a serial port on the Comm Server and controlled with the ASCII output from input alarms and status change.  
5.3"W x 4.5"H x 1.3"D / 12VDC @ 300ma  
**The OX4 operates only with Slave Controllers.**

### ***Lock Power Supplies:***

\*\* To provide lock power each package listed on the previous page requires one of the power supplies listed here. \*\*

**DSX-SWS150/15** 110VAC to 15V 10A, 150 Watt Lock Power Supply for 12V Locks  
3.9"W x 7.8"H x 2.0"D – 1.6lb. / 15VDC @ 10A

**DSX-SWS150/28** 110VAC to 27V 5.5A, 150 Watt Lock Power Supply for 24V Locks  
3.9"W x 7.8"H x 2.0"D – 1.6lb. / 27VDC @ 5.5A

**DSX-SP320/27** 110VAC to 27V 11A, 320 Watt Lock Power Supply for 24V Locks  
4.5"W x 8.4"H x 2.0"D – 2.2lb. / 27VDC @ 11A

**The above DSX manufactured products have a 2-Year Warranty !**





## DSX-1040 Series Components

### ***Power Supply and Components:***

All Controller Packages include the DSX-1040PDP listed below, however the 1040PDP can be purchased separately.

**DSX-1040PDP** Power Distribution Panel that includes one enclosure with lift off door, and one SWS150 15V power supply, one 1040PDM Power Distribution Module, one exhaust fan. Lock Power Supply is ordered separately.  
Backup Batteries are also sold separately for Controller and Lock Power

**DSX-1040PE** Power Distribution Panel Enclosure with lift off door.  
15.5"W x 14"H x 6.0"D – 11.0lb. / Black Powder Coat

**DSX-1040PE-B** Battery Enclosure. Holds 10 – 12V 7AH Batteries - not included  
15.5"W x 14"H x 6.0"D – 11.0lb. / Black Powder Coat / Lift Off Door.

**DSX-1040PDM** Power Distribution Module. Module is for Panel and Lock Power.  
9"W x 5"H x 1.5"D – 1.3lb. /

**DSX-SWS150** 15V, 10A, 150 Watt Power Supply for Panel Power  
3.9"W x 7.8"H x 2.0"D – 1.5lb. / 15VDC @ 10A

**The above DSX manufactured products have a 2-Year Warranty !**





## DSX-1020 Series Intelligent Controllers

**\*\*All Controllers ship with enclosures except where noted. Transformers and Batteries are sold separately.\*\***

**DSX-1020** Intelligent Single Door Controller 8 Inputs, 2 Fused Relay Outputs, 1 Reader Port  
15.5"W x 13.5"H x 6.0"D – 12.6lb. Lift off Door / 512K RAM – 512K Flash ROM  
Requires >16.5VAC 40VA XFMR and 12V – 7AH Battery

**DSX-1022** Intelligent Two Door Controller 8 Inputs, 4 Fused Relay Outputs, 2 Reader Ports  
15.5"W x 13.5"H x 6.0"D – 12.6lb. / 512K RAM – 512K Flash ROM  
Requires >16.5VAC 40VA XFMR / 12V – 7AH Battery <

*Note:/// The DSX-1022 is the direct replacement for the DSX-1021. The DSX-1022 is fully compatible with new and existing systems and controllers.*

Use the DSX-1022-1 Retro Fit Kit for 1021 replacements.

**1022PKG** Intelligent Two Door Controller Package

Includes DSX-1022 listed above, 2 -125KHz Prox Readers, 50 Prox Cards, DSX-MCI, and 16.5VAC 40VA XFMR, and WinDSX WinStart. Requires 12V– 7AH Battery

**DSX-1022-SMP** System Monitoring Panel

Provides 4 Form C Relay Outputs that activate on Device Comm Loss, Consecutive Denied Exceeded, Low Battery, and AC Power Loss, If connected to a 1040 series Master a DSX-MCI is required. Requires >16.5VAC 40VA XFMR / 12V – 7AH Battery





## Communication Devices and Suppression

### ***Communication Devices:***

**DSX-1035** Quadraplexor 4 Channel RS-485 Mux/Repeater / Protocol Independent  
7.25"W x 6.75"H x 2"D – 2lb. / 16.5VAC 20VA XFMR / 12V – 7AH Battery or  
12VDC @ 500ma / 1 each RS-232, RS-485 Inputs / 1 – RS-232 Output, 4 – RS-485 Outputs

**DSX-MUX** 6 Channel RS-232 Communications Mux for multiple slave channels using RS-232  
5"W x 3"H x 1.75"D – 3oz / 5VDC @ 100ma  
1 each RS-232, RS-485 Inputs / 6 – RS-232 Outputs

**DSX-MCI** Single Channel RS-232 to RS-485 Converter for Master or Slave communications  
3"W x 2"H x .75"D – 2oz / 12VDC @ 30ma  
1 – RS-232 Input / 1 – RS-485 Output

**DSX-485T** 2 Channel RS-485 Mux/Repeater. Used to mix old and new DSX-1032  
Controllers on the same communications circuit.  
(old 1032 refers to one without diagnostic LEDs)  
3.5"W x 2.5"H x .75"D – 2oz / 5VDC @ 30ma 1 – RS-485 Input / 2 – RS-485 Outputs

### ***DSX LAN Serial Servers:***

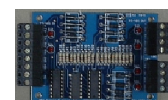
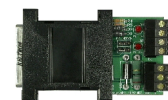
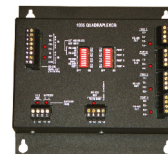
**DSX-LAN** Auto-sensing 10/100BaseT communications interface for DSX Controllers.  
Powered from DSX Controller with 12VDC at 300ma. 5.5" W x 3.5" H x 1.0" D  
RS-232 and RS-485 Communications for Controllers.

### **LAN w/ Dial Up Modem Backup:**

**DSX-LAN(M)** Auto-sensing 10/100BaseT communications interface for DSX  
Controllers with Dialup Modem backup. Powered from DSX Controller with 12VDC  
at 300ma. 5.5" W x 3.5" H x 1.0" D / RS-232 and RS-485 Communications for Controllers.

**DSX Modem Sold Separately.**

**The DSX-LAN (M) only works for PC to Master Controller Communications.**





## Communication Devices and Suppression

### *Communication Devices continued .....*

#### ***DSX Modems:***

**DSX-Dial-up Modem** Dial-Up Modem 2 year warranty  
5.5" W x 3.5" H x 1.0" D / 12VDC at 300ma  
12VDC from Controller Power or at PC from supplied 12VDC adapter

**SPI-1442-LL** 1 Pair of 14.4 - 2 wire Lease Line Modems 1 year warranty  
Complete with 2-RS-232 to RS-485 converters, 2-gender changers. Can also be used in short haul applications on 1 pair copper wire for distances up to 8 miles.

**SPI-Cable** Extra Modem Cable, all modems above come with cables

**DSX only supports modems sold by DSX!**

#### ***Surge Suppression and Filters:***

**DSX-DP232** RS-232 Data Surge Protection Module typically used in pairs to isolate an underground or overhead cable run.  
5"W x 2.75"H x 1.25"D - 3oz / 1 - RS-232 12V Data Communication Protection  
Response Time <10nsec. / Max Speed - 1.5Mhz / Clamp Voltage  $\pm 23.5V$

**DSX-DP485** RS-485 Data Surge Protection Module / used in pairs to isolate an underground or overhead cable run.  
5"W x 2.75"H x 1.25"D - 3oz / 1 - RS-485 5V Data Communication Protection  
Response Time <10nsec. / Max Speed - 1.5Mhz / Clamp Voltage  $\pm 11.7V$

**DSX-220** Card Reader Cable Noise Filter / Signal Booster - tx & rx module set / 5 conductors  
220TX 7.5"W x 2"H x 1.5"D / 12V 40VA XFMR - installs and is powered at Cab  
220RX 4"W x 2"H x .5"D / 12VDC @ 210ma - installs and is powered at controller



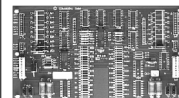




## Reader / Keypad Interfaces

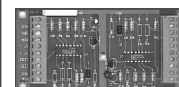
### ***Reader Interface Modules:***

**DSX-CKI-C** Cardkey Card Reader Interface converts single wire data output of reader to 2 wire wiegand / 2 readers per module / 6.5"W x 4"H x 1.25"D – 4oz  
5VDC @ 150ma for each reader / 12VDC @150ma for CKI interface



**DSX-CKI-K** Cardkey Card Reader + Keypad Interface (only used with DSX-1032s)  
For all other controllers use a CKI-C and 2 DSX-400IB modules.  
2 reader/keypads per module / 6.5"W x 4"H x 1.25"D – 5oz  
5VDC @ 200ma for each reader / 12VDC @150ma for CKI interface

**DSX-PCI** PCSC Reader Interface converts 2 Barium Ferrite swipe or insert readers to a 2 wire wiegand output / 2 readers per module / 5"W x 2.5"H x 1.75"D – 3oz  
12VDC @ 150ma



**DSX-CPI** Checkpoint Keypad Interface / 1 reader per module  
2"W x 2"H x 1"D / 5VDC @ 50ma

**DSX-WMI** Watermark Reader Interface / 1 reader per module  
2"W x 2"H x 1"D / 5VDC @ 50ma

**DSX-RKM** ReadyKey Reader Interface / 2 readers per module  
3"W x 2"H x 1.25"D / 12VDC @ 50ma

**DSX-AMI** AMAG Reader Keypad Interface / 2 readers per module  
3"W x 2"H x 1.25"D / 12VDC @ 50ma





## Reader / Keypad Interfaces

### ***DSX-400 Series Keypad Interfaces:***

**DSX-400IB** converts a 3 x 4 matrix keypad output to an 8 bit Wiegand output that can be used for standalone keypad applications or to allow a keypad to be added to a reader for Card + PIN application. / 1 keypad per module - 3"W x 2"H x 1.25"D / 12VDC @ 50ma

**DSX-400IC** converts a 3 x 4 matrix keypad output to an 8 bit Clock and Data output that can be added to a barcode or magstripe reader for Card + PIN applications. / 1 keypad per module 3"W x 2"H x 1.25"D / 12VDC @ 50ma

**DSX-400ID** converts a BCD output to an 8 bit Wiegand that can be used for standalone keypad applications or to allow a keypad to be added to a reader for Card + PIN application. / 1 keypad per module - 3"W x 2"H x 1.25"D / 12VDC @ 50ma

**DSX-400CP** converts the output of a Checkpoint Keypad to an 8 bit Wiegand output that can be used for standalone keypad applications or in conjunction with a reader for a Card + PIN application. / 1 keypad per module - 3"W x 2"H x 1.25"D / 12VDC @ 50ma

### ***Misc. Interfaces:***

**DSX-400DM** Duress Module for 8 bit Wiegand keypads provides for a means of signaling a silent duress to the Host PC and still allowing access according to the persons code. / 1 keypad per module - 3"W x 2"H x 1.25"D / 12VDC @ 50ma

**DSX-400DL** Door Latch Module allows the user to unlock the door with a card read, latch the door in an unlocked state with a second card read and to relock the door with a third card read. Only users with the appropriate linking level will perform this function while other users will only gain entry as normal. The same module can also be used in an application where the door needs to be bypassed in the manner described above but not unlocked.  
3"W x 2"H x 1.25"D / 12VDC @ 50ma





## DSX Basic System Software – Access Version

Order the basic software package that you need and if you require any of the Advanced Features order the DSX Features Key with those features enabled.

### ***Basic Software:***

**WinStart** WinDSX for Windows2000 Pro/XP Pro/Vista Business - Starter/Update Kit includes 1-WinDSX Software CD, 1-Tech Binder and 2-WinDSX User Guides. This version uses Microsoft Access™ for the DataBase engine. This version of Software does not require the use of a DSX Features Key but the Advanced Features used with this version do.

**WinDSX Upgrade CD** WinDSX Software on CD/no printed documentation – Software Installation and User Manuals are provided on CD in PDF format. Hardware manuals are not included. Microsoft Access™ Version only.

### ***DSX Features Key / Advanced Features:***

**DSX Features Key:** The Features Key is a USB dongle that enables certain advanced software features. There is only one DSX Features Key per system and one or both of the Advanced Features listed below can be enabled on the same key.

**To add a feature to an existing key, see ModifySwKey on page 11.**

#### **DSX-AES256 Communication Encryption**

AES-256 bit Encryption can be implemented between the Comm Server and the Workstation PCs and between the Comm Server and the Intelligent Controllers. Requires Version 3162 or higher in the DSX Controllers.

#### **DVR Integration**

Digital Video Recorder Integration can be enabled in the DSX Features Key. With the Features Key installed on any PC in the system the DVR integration features are available at all WinDSX Workstations. For more information see page 11.

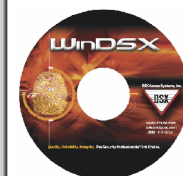
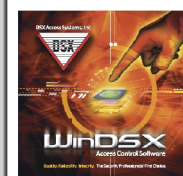
The DSX Features Key with DVR Integration enabled comes with a driver disk that has the drivers available from DSX. There are some drivers that must be obtained from the DVR manufacturer. More than one driver can be used at the same time with a single Key.

#### **Live Image Capture**

Live Image Capture can be enabled in the DSX Features Key to allow for live video from a DSX CamKit. Required to capture Card Holder images and signatures.

If the System already has a DSX Feature Key for DVR Integration this feature must be enabled in the same key.

The DSX Feature Key with Live Image Capture is not required for Live Image Capture from a TWAIN compatible video source.





## DSX System Software – SQL Version

Order the SQL software package that you need and if you require any of the Advanced Features order them at the same time so they can be enabled in the same DSX Features Key.

### ***SQL Software:***

**WinStartSQL WinDSX for Microsoft SQL Server - Starter/Update Kit** includes 1-WinDSX SQL Software CD, 1-Tech Binder and 2-WinDSX User Guides, and a DSX Features Key. Does not include Microsoft SQL Server™

**This product requires advanced configuration. The Dealer or End User must have a Microsoft SQL Server Administrator to install and maintain the SQL Server.**

**WinDSXSQL Upgrade CD** WinDSXSQL Software on CD only / no printed documentation  
**This version does not come with a DSX Features Key and only upgrades existing SQL systems**

### ***DSX Features Key / Advanced Features:***

**DSX Features Key:** The Features Key is a USB dongle that enables certain advanced software features. There is only one DSX Features Key per system and one or all of the Advanced Features listed below can be enabled on the same key. The cost of the DSX Features Key is the accumulative price of one or all of the Advanced Features listed below. **To add a feature to an existing key see ModifySwKey (Next Page).**

#### **DSX-AES256 Communication Encryption**

AES-256 bit Encryption can be implemented between the Comm Server and the Workstation PCs and between the Comm Server and the Intelligent Controllers.

#### **DVR Integration**

Digital Video Recorder Integration can be enabled in the DSX Features Key. With the Features Key installed on any PC the DVR integration is available at all WinDSX Workstations.

The DSX Features Key with DVR Integration enabled comes with a driver disk that has some of the drivers available from DSX. There are some drivers that must be obtained from the DVR manufacturer. More than one driver can be used at the same time with a single key.

#### **Live Image Capture**

Live Image Capture can be enabled in the DSX Features Key to allow for live video from a DSX CamKit. Required to capture Card Holder images and signatures. The DSX Features Key with Live Image Capture is not required for Live Capture from a TWAIN video source.

#### **DSX-HSCS Hot Swap Comm Server Software**

The DSX-HSCS program manages the operation of a Redundant Comm Server PC for the **WinDSX SQL Software**. It allows two Comm Servers (the primary and backup PCs) to be online and ready at all times. The HSCS software monitors the Primary Comm Server. If the Primary Comm Server fails the Backup Comm Server comes up in its place.





## Advanced Features – DVR / Live Image Capture

### ModifySwKey

To order and add features to an existing DSX Features Key run the ModifySwKey.exe program on the PC where the DSX Features Key is installed and select Quit. The program will generate a HaspData.txt file. Print and include this file with your order for the new Advanced Feature. DSX will return to you a “Programming Code” that you will enter in the ModifySwKey program when you run it again. This will update your key to include the new feature.

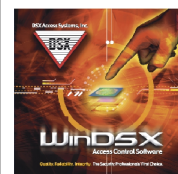


### DSX-AES256 Communication Encryption

AES-256 bit Encryption can be implemented between the Comm Server and the Workstation PCs and between the Comm Server and the Intelligent Controllers. Requires Version 3162 or higher the DSX Controllers.

### DVR Integration

WinDSX has the ability to integrate with different Digital Video Recorders. This integration allows stored and live video from the DVR to be accessed within the DSX software. All video is transmitted across a Local Area Network connection. Real time video can be automatically displayed in response to alarm events. When programmed, the operator can request real time and stored video from the alarm acknowledgement screen or from any input/output or camera icon.



Recorded Video can also be viewed while running a History report. Simply highlight the event you would like to see the video for and click the “Show Video” button. The system will find the video that matches the event time and date and display it on screen.

Digital Video Recorder Integration can be enabled in the DSX Features Key. With the DSX Features Key installed on any PC in the system the DVR integration is available at all WinDSX Workstations.

The Features Key with DVR Integration enabled comes with a driver disk that has some of the drivers available from DSX. There are some drivers that must be obtained from the DVR manufacturer. More than one driver can be used at the same time.

For available and pending drivers call DSX Technical Support and check the WebSite at this Location - <http://www.dsxinc.com/DSXDesignGuide/Docs/dvrs.htm>.

### Live Image Capture

Live Image Capture can be enabled in this DSX Features Key to allow for live video from a DSX CamKit. Required to capture Card Holder images and signatures.

If the System already has a DSX Features for DVR Integration this feature must be enabled in the existing key.

*The DSX Features Key with Live Image Capture is not required for Live Capture from a TWAIN compatible video source.*



## Advanced Features – Hot Swap Comm Server

### ***Hot Swap Comm Server Software:***

#### **DSX-HSCS**

The DSX-HSCS program manages the operation of a Redundant Comm Server PC for the **WinDSX SQL Software**. It allows two Comm Servers (the primary and backup PCs) to be online and ready at all times. The HSCS software monitors the Primary Comm Server and if it fails brings the Backup Comm Server online in its place.



- The SQL Server program must be run on a separate PC or cluster of PCs. **The Hot Swap Software is only available with the WinDSX SQL software. This feature must be Enabled in the DSX Features Key used for the SQL Software. The DSX Features Key should be installed at the Backup Comm Server.**
- If communications to all Location Master Controllers is performed using TCP/IP there is no additional hardware required. Master Controllers with LAN communications that are configured for a dynamic connection will automatically communicate to the Backup Comm Server.
- If Direct Serial Ports connections and/or Dial-up Modems are used for Location Master Controller communications a DSX-SPS Serial Port Switcher is required. More details on this below.

### ***Hot Swap Hardware:***

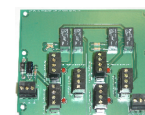
#### **DSX-SPS Serial Port Switcher**

The DSX-SPS is the hardware required to switch physical serial port connections from the Primary Comm Server PC to the Backup Comm Server PC. The DSX-SPS consists of a DSX-1040E rail mount enclosure, DSX-1040 PDP, the DSX-SPST serial port switch trigger module, and a single DSX-2PC two port controller. The DSX-SPS provides everything necessary to switch two comm ports. For more than two Comm Ports use additional DSX-2PCs.



#### **DSX-2PC Two Port Controller**

Each DSX-2PC provides two switched serial ports. The DSX-SPS comes ready for two ports. Add up to 9 more DSX-2PCs for a total of 20 ports.



- The Backup Comm Server must have the same number of serial ports as the Primary Comm Server plus 1 additional serial port for the connection to the DSX-SPST Serial Port Switch Trigger Module.





## Integration Software – PC Master / Soft IO

**PC Master** Allows for LAN communications to each Slave or cluster of Slave Controllers instead of just the Master Controller. This software allows a PC to emulate a Master Controller of a single location and communicate with slave panels using TCP/IP over a LAN/WAN. This is not required for typical PC to Master Controller communications using TCP/IP and a DSX LAN module.

The Comm Server communicates to the PCM software over the LAN. It downloads the Location data to the PCM and supervises the communication to the PCM just as if it were a Master Controller. The PCM then communicates and Polls the Slave panels just like a Master Controller. The only difference is the Slave Controllers are connected to the Network using LAN Serial Devices such as the DSX LAN module.

The PCM can communicate with up to 63 Slave controllers each with its own LAN connection or multiple Slave Controllers can be connected to the same LAN serial device. The PCM supervises the communication to these LAN connected Slave panels and performs all global communication duties such as Linking and Anti-Passback.

Each PCM represents 1 Location. Multiple PCM computers can be used to represent Multiple Locations with diverse LAN and serial port connected controllers.

**Soft I/O** Software provides a bridging interface between the DSX control panel network and various other devices and systems. Inputs and Outputs of other systems can be integrated and mapped into WinDSX through this interface. The base Soft I/O program without any special drivers will accept and send data on an open ended ASCII format. For special protocol communications select from the list of drivers below. Contact DSX for the creation of special drivers. The cost of the Drivers listed below is added to the base + cost of Soft I/O.

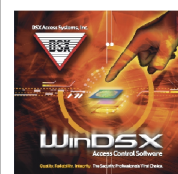
\*\*\*\*Special Drivers: Add to the Base Cost of Soft I/O\*\*\*\*

**Kone Elevator High Level Interface**

**OTIS Elevator High Level Interface**

**SIA/6500 Automation Output from Digital Receiver**

**Toa Intercom**





## DSX Literature / Demo Units

### ***Documentation:***

**Tech-Binder** DSX Technical 3 Ring Binder contains: system specifications, software installation, user guide, hardware installation, quick reference and more.

**Resource CD** DSX Technical documents on CD. CD contains same documents as Tech Binder. This CD contains all DSX documents in PDF format and all drawings in Visio file format. Sample Reports are also available on this CD.

**WinMAN** Extra Copy of WinDSX User Guide – only

**DS-3Rbind** DSX Logo 3 ring binder with no documentation (binder only) No picture.

**Demo CD** The NEW WinDSX Demo CD provides an extensive narrated walkthrough of the WinDSX program. It is fully narrated with step-by-step on screen instructions. This demo provides an excellent software overview. It is available upon request at [www.dsxinc.com](http://www.dsxinc.com) under “Requests” or by e-mail request at [sales@dsxinc.com](mailto:sales@dsxinc.com).

### ***DSX Demo Units:***

**DS-1022D** DSX-1022 controller, enclosure, 1 million mount prox reader, cards, transformer, communications cable, egress and door position switches all pre-configured.

**DS-1042D** 1-DSX-1042 controller, enclosure, 1 million mount prox reader, cards, 1040CDM, DSX-1040 PDP, FRB8, communications cable, egress and door position switches all pre-configured.

**DS-1048D** 4-DSX-1042 controllers, enclosure, 2 million mount prox readers, cards, 1040CDM, DSX-1040 PDP, FRB8, communications cable, egress and door position switches all pre-configured.

### ***DSX Enrollment Reader:***

**FIPS 201 Enrollment Reader** USB connected FIPS 201 Enrollment Reader. This reader is Preprogrammed by DSX to properly read the FIPS201 card and insert the proper data into the DSX database. 4.2” x 2.5” x 0.875” / 0.45 lbs. / USB self-powered / Tri-state LED 13.56 MHZ / FCC, RoHS





## DSX Miscellaneous Items

**DSX-TDM** 4 Digit, 1 inch 7 Segment LED, Time Display Module.  
TDMs work between the PC and Master using a Direct or LAN connection,  
or on any Slave Controller. This is the smaller of the two in the picture to the right.

**DSX-TDM5** 4 Digit, 5 inch 7 Segment LED, Time Display Module. **NEW**  
TDMs work between the PC and Master using a Direct or LAN connection,  
or on any Slave Controller. Requires 16.5VAC transformer (sold separately)

**DSX-1030PR5** Intelligent Processor to upgrade existing "Revised" 1030 Series Controllers  
Mounts in metal enclosure that existing 1030P comes out of with 4 existing screws.  
512K RAM – 512K Flash ROM / Provides Flash update ability and 512K RAM upgrade.

**32K-PSET** Two 32K Byte Firmware Chips for each Panel Upgrade. Specify Latest  
Version for WinDSX. This firmware is for the 1030 series and the 1021 (not the 1022 or  
1040 series).

**32K-RAM** 32K Byte RAM Chip For Memory Expansion. Specify if DSX is to install  
the RAM in panels being shipped. DSX-1040 series controllers and the DSX-1022 do  
not require memory upgrades.

**DSX-1021MX** Memory Expansion Module for DSX-1021/1020 Controllers (not the 1022).

- § 1 Ram chip can be added to 1020 series panels without the module. With the module  
1-4 32K RAM chips can be added for expansion up to 192K
- § Memory expansion module for rev 3 or higher DSX-1020 Series Controllers.
- § Specify the proper number of RAM chips, to be inserted into the module.
- § Controllers prior to rev 3 must be sent to DSX for module upgrade.
- § Standard repair fee for rev 1 and 2 controllers.
- § ½ standard repair fee for rev 3 and higher controllers.

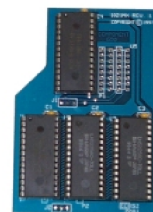
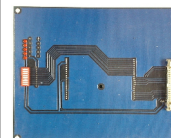
**16V-XFR** 16.5 Volt 40 VA Plug In Transformer

**12V-BATT** 12 Volt 7 Amp Hour Battery

**MOV22** 12 Volt MOV Lock Surge Suppressor. Bag of 100 only

**MOV38** 24 Volt MOV Lock Surge Suppressor. Bag of 100 only

**277-LOCK** DSX Enclosure Lock with key







## XceedID Smart Card and Transition Readers

### ***XceedID Transition to SmartCard Reader:***

**XF1100** Mullion mount with up to 5" read range based on credential. Black  
5.85"H x 1.72"W x 1.14"D / 6-16VDC @ 95ma Average 254ma Peak

**XF1500P** Single Gang mount with up to 4.5" read range based on credential. Black  
5.1"H x 3.25"W x .76"D / 5-16VDC @ 110ma Average 160ma Peak

**XF2100** Mid Range with up to 8" read range based on credential. Black  
5.85"H x 4.5"W x 1.45"D / 6-16VDC @ 95ma Average 218ma Peak

**XF2110** Mid Range Reader/Keypad with up to 8" read range based on credential. Black  
5.85"H x 4.5"W x 1.45"D / 8-16VDC @ 120ma Average 215ma Peak

**MP1000** Mullion Reader mounting plate adapts mullion reader to single gang – no pic

Interior, exterior, metal and non-metal installations. Read most 125kHz prox cards such as HID, GE/Casi, AWID, LenelProx cards, and Mifare, ISOX Smart Cards

### ***XxceedID Transition to SmartCard Readers with FIPS 201/PIVII***

**XF1100-PIV** Mullion mount with up to 6" read range based on credential. Black  
5.85"H x 1.72"W x 1.14"D / 6-16VDC @ 95ma Average 254ma Peak

**XF2100-PIV** Mid Range with up to 6" read range based on credential. Black  
5.85"H x 4.5"W x 1.45"D / 6-16VDC @ 95ma Average 218ma Peak

**XF2110-PIV** Mid Range Reader/Keypad up to 6" read range based on credential. Black  
5.85"H x 4.5"W x 1.45"D / 8-16VDC @ 120ma Average 215ma Peak

Read most 125kHz prox cards such as HID, GE/Casi, AWID, LenelProx cards and Smart Cards such Mifare, ISOX, and DesFire. These readers are FIPS201/PIVII compliant

### ***XceedID ISOX Smart Card only Reader***

**XF1060XX** Mini-Mullion mount with up to 3" read range. Black  
4.2"H x 1.72"W x 1"D / 5-16VDC @ 50ma Average 80ma Peak

**XF1560** Single Gang mount with up to 3" read range. Black  
5.1"H x 3.25"W x .76"D / 5-16VDC @ 110ma Average 160ma Peak

Interior, exterior, metal and non-metal installations. Reads Smart Cards such Mifare, ISOX, and DesFire.





## XceedID 125 KHz RFID Cards and Readers

### ***XceedID Legacy 125 KHz Proximity Readers:***

**XF-1050B-B** Mini-Mullion mount with up to 3" read range based on credential. Black  
4.2"H x 1.72"W x 1"D / 5-16VDC @ 55ma Average 167ma Peak

**XF-1550** Single Gang mount with up to 4.5" read range based on credential. Black  
5.1"H x 3.25"W x .76"D / 5-16VDC @ 110ma Average 160ma Peak

Interior, exterior, metal and non-metal installations. Read HID, GE/Casi, AWID, LenelProx



### ***XceedID 125Khz HID Compatible Cards for Access Control only:***

**7410** Clamshell HID 125Khz Compatible Card for Access Control only

**7510** ISO compliant HID 125Khz Compatible Direct Print Card for Access Control only

**7510M1** ISO compliant HID 125Khz Compatible Direct Print Card with MagStripe

**7610** ISO compliant HID 125Khz Compatible KeyTag



## XceedID Smart Cards

### ***XceedID Smart Cards for Access Control only:***

**9420** Clamshell ISOX Lite Smart Card for Access Control only  
3.37 x 2.125 x .075 inches 13.56MHz

**9520** ISO compliant Direct Print Card for Access Control only  
3.37 x 2.125 x .033 inches 13.56MHz

### ***XceedID Smart Cards for Access Control and other Applications:***

**9440** Clamshell ISOX with 10K application area  
3.37 x 2.125 x .075 inches 13.56MHz

**9540** ISO compatible Direct Print Card with 10K application area  
3.37 x 2.125 x .033 inches 13.56MHz

**9540M1** ISO compatible Direct Print Card with 10K application area and Magstripe  
3.37 x 2.125 x .033 inches 13.56MHz Picture is same as above but with Magstripe.

**9640** Durable Smart Keytag with 10K application area. Grey  
2 x 1.24 x .38 inches 13.56MHz

**9641** Epoxy Smart Surfboard Tag with 10K application area. White  
2.07 x 1 x .17 inches 13.56MHz

**9740** PVC Patch Card with 10K application area. No Picture

#### Warranty

XceedID Readers and ISOX credentials have a limited lifetime warranty.  
MIFARE and DESFire credentials have a limited 2 year warranty.

For More Information go to [www.xceedid.com](http://www.xceedid.com)





## Wiegand Swipe and Insert Readers / Cards

### ***HID Swipe and Insert Readers:***

**W-S** Wiegand Indoor/Outdoor Swipe Reader  
5.3"W x 2.3"H x 1.7"D / 5-12VDC @ 40ma

**W-T** Wiegand Indoor/Outdoor Turnstile Swipe Reader  
7"W x 1.75"H x 1.75"D / 5-12VDC @ 40ma

**W-I** Wiegand Indoor/Outdoor Insert Reader  
3.18"W x 1.18"H x 3"D / 5-12VDC @ 40ma

**W-K** Wiegand Indoor/Outdoor Key Reader  
1.5"W x 1.62"H x 2"D / 13.5VDC @ 40ma

**W-SPIN** Wiegand Indoor/Outdoor Swipe w/keypad  
4.27"W x 5.64"H x 2.25"D / 5-12VDC @ 140ma



### ***HID Wiegand Cards and Keys:***

**W-CC** Wiegand Access Card – Standard Wiegand Swipe Card w/ DSX Logo  
3.375"W x 2.125"H x .037"T – DSX 33bit unless other format is specified



**W-KC** Wiegand Access Key Cards – Wiegand Keys for the W-K reader  
3.29"W x .669"H x .093"T – DSX 33bit unless other format is specified



**W-DSC** Wiegand Direct Print Dye Sublimation Card – For Direct Card Printers  
3.375"W x 2.125"H x .030"T – DSX 33bit unless other format is specified



**W-Prox** Wiegand Swipe / HID Prox Dye Sublimation Card – Duo Card w/Wiegand+Prox  
Same as ID-1376





## HID Proximity Readers

### ***HID Proximity Readers:***

**ID-PL6005** ProxPoint Mullion Mount Reader – Beige, White, Black, and Grey  
1.7"W x 3.1"H x .66"D / 5-16VDC @ 20-75ma / RR=2"-3"

**ID-MP5365** MiniProx Mullion Mount Reader - Beige, White, Black, and Grey  
1.7"W x 6"H x 1"D / 5-16VDC @ 20-110ma / RR=4"-5.5"

**ID-TL5395** ThinLine II Wall Switch Reader Beige, White, Black, and Grey  
3"W x 4.7"H x .68"D / 5-16VDC @ 20-115ma / RR=4"-5.5"

**ID-PR5355** ProxPro 8" Proximity Reader has screw terminals for termination  
5"W x 5"H x 1"D / 10-28.5VDC @ 100-120ma / RR=5.5"-8" Beige and Grey

**ID-PR5455** ProxPro 8" Proximity Reader same as 5355 but has pigtail for termination  
5"W x 5"H x 1"D / 5-16VDC @ 25-125ma / RR=5.5"-8" Beige, White, Black, and Grey

**ID-PR5455GMK** Glass Mount Kit for the ID-PR5355 and ID-PR5455. no picture

**ID-PK5355-8** ProxPro 8" Reader w/ Keypad/Keypad has an 8 bit output for Card + PIN  
5"W x 5"H x 1"D / 10-28.5VDC @ 100-120ma / RR=5.5"-8" Beige and Grey

**ID-PK5355-26** ProxPro 8" Reader w/ Keypad/Keypad has a 26 bit output for Card **or** PIN  
5"W x 5"H x 1"D / 10-28.5VDC @ 100-120ma / RR=5.5"-8" Beige and Grey

**ID-MX5375** MaxiProx 25" Proximity Reader - 24 Volt Linear Power Supply required  
11.8"W x 11.8"H x 1"D / 12 or 24VDC @ 200-700ma @12VDC / RR=16"-24"  
Grey only.





## HID Proximity Cards

### ***HID Proximity Cards:***

**ID-1326** HID Proxcard II w/Lifetime Warranty

3.375" x 2.125" x 0.070" – DSX 33bit unless other format is specified

Read Ranges = MiniProx, ThinLine II -up to 5.5" ProxPoint Plus -up to 3"

ProxPro -up to 8" MaxiProx -up to 24"



**ID-1336** HID DuoProx II Direct Print single side + Magstripe

2.125" x 3.375" x 0.033" – DSX 33bit unless other format is specified

Read Ranges = MiniProx, ThinLine II -up to 5" ProxPoint Plus -up to 2.5"

ProxPro -up to 7" MaxiProx -up to 20"



**ID-1346** HID ProxKey II Key Chain Keyfob

1.9" x 0.9" x 0.345" – DSX 33bit unless other format is specified

Read Ranges = MiniProx, ThinLine II -up to 2" ProxPoint Plus -up to 1.5"

ProxPro -up to 3" MaxiProx -up to 12"



**ID-1321** HID Adhesive backed Photo Pouch can be used with 1326 Card or W-CC.



**ID-1386** HID ISOProx II Direct Print both sides

2.125" x 3.375" x 0.033" – DSX 33bit unless other format is specified

MiniProx, ThinLine II -up to 5" ProxPoint Plus -up to 2.5"

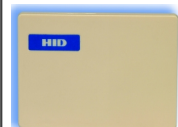
ProxPro -up to 7" MaxiProx -up to 20"



**ID-1351** HID Power Prox Vehicle ID Tags minimum of 10

3.61" x 2.66" x 0.30"

MaxiProx 6' to 8'



**ID-1391** HID MicroProx Tag adhesive back/quarter size

Diameter: 1.285" Thickness: 0.070"

MiniProx, ThinLine II -up to 2.5" ProxPoint Plus -up to 2.0"

ProxPro II -up to 3.5" ProxPro -up to 4" MaxiProx -up to 4.5"





## HID IClass Readers and Cards

### *HID IClass Proximity Readers:*

**6100** R10 Indoor/Outdoor Mullion Mount Read Only. Range 1-3 inches.  
1.90 x 4.04 x 0.80 / 5 - 16VDC @ 50 – 75ma

**6120** R40 Indoor/Outdoor Wallswitch Mount Read Only. Range 1-4 inches.  
3.30 x 4.80 x 0.85 / 5 - 16VDC @ 50 – 75ma

**6125** RP40 In/Out Wallswitch Read Only HID Prox/IClass/FIPS 201. Range 1-3 inches.  
3.30 x 4.80 x 0.85 / 5 - 12VDC @ 50 – 75ma

**6145** RP15 In/Out Mullion Read Only HID Prox/IClass/FIPS 201. Range 1-3 inches.  
1.90 x 4.04 x 0.80 / 5 - 12VDC @ 50 – 75ma

**6130** RK40 Indoor/Outdoor Wallswitch Read Only With KeyPad. Range 1-3 inches.  
3.30 x 4.80 x 0.90 / 5 - 16VDC @ 72 – 244ma /-8 Card+PIN, -26 Card or PIN

**6136** RPK40 Indoor/Outdoor Wallswitch Read Only With KeyPad. Range 1-3 inches.  
3.30 x 4.80 x 0.90 / 5 - 16VDC @ 72 – 244ma FIPS 201. /-8 Card+PIN, -26 Card or PIN

**6150** R90 Indoor/Outdoor Long Range Read Only. Range Up to 18 inches.  
12.0 x 12.0 x 1.25 / 12VDC @ 420 – 1300ma / 24VDC @ 210 – 700ma

\*\*\* **6150 in Black only. All others in Grey or Black. Grey is default color** \*\*\*

### *HID IClass Cards:*

**2000** Direct Print Contactless Smart Card. 2K bits with 2 areas.

**2001** Direct Print Contactless Smart Card. 16K bits with 2 areas.

**2002** Direct Print Contactless Smart Card. 16K bits with 16 areas.

**2020** Direct Print Contactless Smart Card + HID Prox card. 2K bits with 2 areas.

**2021** Direct Print Contactless Smart Card + HID Prox card. 16K bits with 2 areas.

**2022** Direct Print Contactless Smart Card + HID Prox card. 16K bits with 16 areas.

**2050** Contactless Smart Key Tag. 2K bits with 2 areas.

**2051** Contactless Smart Key Tag. 16K bits with 2 areas.

**2052** Contactless Smart Key Tag. 16K bits with 16 areas.

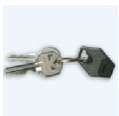
**2060** Contactless Smart Stick On Tag. 2K bits with 2 areas.

**2061** Contactless Smart Stick On Tag. 16K bits with 2 areas.

**2062** Contactless Smart Stick On Tag. 16K bits with 2 areas.

**2080** Contactless Smart Card clamshell. 2K bits with 2 areas.

See [www.hidcorp.com](http://www.hidcorp.com) for details.







## Pyramid Series Proximity Readers

### ***Pyramid Proximity Readers:***

**P- 300 Cascade Proximity Reader** / Mullion Mount, 4" Read Range

Includes Black and Off-White Covers / 1.5"W x 2.3"H x .49"D / 5-14VDC @ 80ma

**P- 300-H** is same as Doorframe reader above but with HID™ compatibility.

**P- 300-AWID** is same as Doorframe reader above but with AWID™ compatibility.

**P- 400 Gibraltar Proximity Reader** / Mullion Mount, UL752, 1" Read Range

High Vandal Resistance Reader / 2"W x 5.25"H x .75"D / 5-14VDC @ 90ma

**P- 400-H** is same Stainless Steel & Fiber-Tex construction but with HID™ compatibility.

**P- 500 Alps Proximity Reader** / Wall Mount, 5" Read Range

Includes Black and Off-White Covers / 3.0"W x 4.5"H x .38"D / 5-14VDC @ 80ma

**P- 500-H** is same as Single Gang reader above but with HID™ compatibility.

**P- 500-AWID** is same as Doorframe reader above but with AWID™ compatibility.

**P- 600-8 Rocky Proximity Reader & Essex Keypad** / 4" Read Range

Includes Black and Off-White Covers / 3.9"W x 4.4"H x .95"D / 5-14VDC @ 90ma

This Keypad has an 8 bit output for Card + PIN. The reader and keypad are controlled by the card reader and keypad time zones. The Time Zones determine when only a card is required, keypad is required, or both are required to gain entry. PIN numbers can be 4-7 digits.

**For Card + PIN applications that require both a card read and keypad PIN**

**P- 600-8-H** is same as the single piece reader & keypad above but with HID™ compatibility.

**P- 600-26 Rocky Proximity Reader & Essex Keypad** / 4" Read Range

Includes Black and Off-White Covers / 3.9"W x 4.4"H x .95"D / 5-14VDC @ 90ma

This Keypad has a 26 bit output for Card or PIN. The reader and keypad are controlled by the card reader Time Zone. At any time a card or a keypad code can be used but never are both required. Cards used should be 6 digits in length or greater and keypad codes can be 4 to 5 digits in length with a number no higher than 65534.

**For Card or PIN applications that require either a card read or keypad PIN**

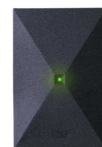
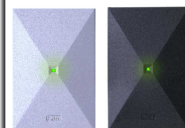
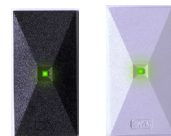
**P- 600-26-H** is same as the single piece reader & keypad above but with HID™ compatibility.

**P- 700 Yukon Medium Range Proximity Reader** / 14" Bi-Directional Read Range

Includes Black Cover / 6"W x 8.5"H x 1"D / 5-14VDC @ 285ma

**P- 700-H** is same Medium Range Reader as above but with HID™ compatibility.

**-H Option for HID™ compatibility does not work for all HID Cards. It may be necessary to send a sample of cards to DSX for testing.**







## Pyramid Proximity Cards

### ***Pyramid Proximity Cards:***

**PSC-1** Credit Card Size Proximity Card, Lifetime Warranty  
3.375" x 2.150" x .059" – DSX 33bit unless other format is specified  
Standard vertical slot punch (portrait) style.

**PSC-1-H** HID Compatible Credit Card Size Proximity Card, Lifetime Warranty  
3.375" x 2.150" x .059" – DSX 33bit unless other format is specified  
Standard vertical slot punch (portrait) style.

**PSI-4** Extra Durable Direct Print Proximity Card, Life Time Warranty  
3.375" x 2.125" x .046" – DSX 33bit unless other format is specified  
\*\*\* Make Sure that Direct Card Printer can accept a card this thick.\*\*\*

**PSM-2P** Direct Print Proximity Card, 1 Year Warranty  
3.375" x 2.125" x .031" – DSX 33bit unless other format is specified

**PSM-2S** Direct Print Proximity Card, 3 Track Magnetic Stripe, 1 Year Warranty  
3.375" x 2.125" x .031" – DSX 33bit unless other format is specified  
Magnetic Stripe on backside of card is high coercivity (4000 oe).

**PSK-3** Proximity Key Ring Tag, Lifetime Warranty  
1.51" x 1.15" x .196" – DSX 33bit unless other format is specified  
Brass eyelet for attachment.

### **Read Ranges:**

<b>Readers</b>	<b>PSC-1</b>	<b>PSK-3</b>	<b>PSM-2</b>	<b>PSI-4</b>
<b>P-300</b>	up to 4"	up to 2"	up to 3"	up to 3"
<b>P-400</b>	up to 1"	up to 1"	up to 1"	up to 1"
<b>P-500</b>	up to 5"	up to 3"	up to 4"	up to 4"
<b>P-600</b>	up to 4"	up to 2"	up to 3"	up to 3"
<b>P-700</b>	up to 14"	up to 6"	up to 10"	up to 10"





## Indala Series Proximity Readers

### *Indala Proximity Readers:*

**FP4551A** (ASR-500) Indoor/Outdoor ValueProx Reader (Black)  
2.3 x 5.3 x 0.8 / 4-16VDC @ 65ma / 2-5 inch read range depending on card used.

**FP-5061B-8** Indoor/Outdoor Wallswitch Reader/Keypad (Black / Beige)  
This Keypad has an 8 bit output for **Card + PIN**.  
4.5 x 3.0 x 0.7 / 4-16VDC @ 75ma / 3-4 inch read range

**FP-5061B-26** Indoor/Outdoor Wallswitch Reader/Keypad (Black / Beige)  
This Keypad has a 26 bit output for **Card or PIN**.  
4.5 x 3.0 x 0.7 / 4-16VDC @ 75ma / 3-4 inch read range

**FP3511A** (ASR-603) Indoor/Outdoor Door Frame (Mullion) Reader (Black)  
4.5 x 1.7 x 0.8 / 4-16VDC @ 65ma / 2-5 inch read range

**FP3517A** (ASR-603) Indoor/Outdoor Door Frame (Mullion) Reader (Beige)  
4.5 x 1.7 x 0.8 / 4-16VDC @ 65ma / 2-5 inch read range

**FP3521A** (ASR-605) Indoor/Outdoor Wallswitch Reader (Black)  
4.5 x 3.0 x 0.8 / 4-16VDC @ 65ma / 2-5 inch read range

**FP3527A** (ASR-605) Indoor/Outdoor Wallswitch Reader (Beige)  
4.5 x 3.0 x 0.8 / 4-16VDC @ 65ma / 2-5 inch read range

**FP3231A** (ASR-610) Indoor/Outdoor Standard Reader (Black)  
5.1 x 6.1 x 1.1 / 4-14VDC @ 140ma / up to 12 inch read range

**FP3237A** (ASR-610) Indoor/Outdoor Standard Reader (Beige)  
5.1 x 6.1 x 1.1 / 4-14VDC @ 140ma / up to 12 inch read range

**ASR-620** (ASR-620) Indoor/Outdoor Long Range Reader (Black)  
11.2 x 11.2 x 1.8 / 12-24VDC @ 1A – 750ma / 12-26 inch read range

Read Range depends on Card Style used. For more information see [www.Indala.com](http://www.Indala.com)





## Indala Proximity Cards

### ***Indala Proximity Cards:***

**FlexPass 121T** (FPCRD) Credit Card Size Proximity Card, Lifetime Warranty.  
Standard vertical (portrait) slot punch. 3.38"H x 2.13"W x 0.065"

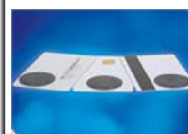
**FlexKey Keytag** (FPKEY) Key Tag Proximity Card, Lifetime Warranty  
1.725"H x 1.197"W x 0.215"T

**FlexPass ISO-30** (FPISO) Direct Print Card, read range is 75% of ASR-121 card.  
3.38 x 2.12 x 0.03

**FlexPass ISO-30M** (FPISOWMAG) Direct Print Card, with magnetic stripe.  
3.38 x 2.12 x 0.03

**FlexISOXT-30M** (FPIXT) Direct Print Card, Extra Durable.  
3.38 x 2.12 x 0.03

**FlexTag** (FPTAG) Adhesive backed, quarter size, Prox card.  
Diameter: 1.285" / Thickness: 0.070"





## Magnetic Stripe Readers

### ***Mercury Readers:***

**MR-10** Gray Indoor/Outdoor Mag Stripe Swipe Reader

1.95"W x 5.5"H x 1.3"D – Track 2, Track 1 field option, Track 3 special order  
75 BPI @ 3-50 inches per second / 12VDC @ 20ma

**MR-20** Gray Indoor/Outdoor Mag Stripe Swipe Card + PIN w/ Membrane Keypad

1.95"W x 5.5"H x 1.3"D – Track 2, Track 1 field option, Track 3 special order  
75 BPI @ 3-50 inches per second / 12VDC @ 80ma

**BR-20** Gray Indoor/Outdoor Mag Stripe Swipe Card + PIN w/ Piezo-Electric Keypad

2.59"W x 5.5"H x 1.3"D – Track 2, Track 1 field option, Track 3 special order  
75 BPI @ 3-50 inches per second / 12VDC @ 80ma

**WP-10** Single Gang Wall Plate For MR-## Readers

Allows the reader to be mounted to a single gang electrical box. Color Matched to the readers. 2.75"W x 6.3"H

**WS-10** Single Gang Weatherized Stainless Housing For MR Readers

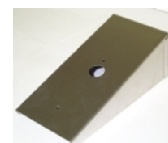
This Weather shield is used for additional protection against the elements.  
3.6"W x 7.5"H

**All MR Readers** are set to read Track 2. Track 1 is a field option.

Track 3 is a special order and must be specified.

### ***Magnetic Stripe Cards: ( Discontinued )***

DSX no longer sells encoded magnetic stripe cards. See Page 24 for non-encoded Magnetic Stripe Cards.





## Bar Code Readers

### ***Time Keeping Systems Bar Code Readers:***

**TKS-110** Indoor/Outdoor Bar Code Swipe Reader / new 12volt

5.05" x 1.7" x 1.54" / 12VDC@50ma

Infrared – 3 to 30inches per second. Bi-directional, auto discriminating and can read the  
Following symbologies: Code 39, Interleaved 2 of 5, Codabar, UPC-A, UPC-E, EAN,  
Code 11, Code 93, Code 128, MSI





## Keypads

### ***Essex Keypads:***

#### **Single Gang Units-**

**DS-12-8W** 10 Digit Indoor / Outdoor Single Gang Keypad – 8 Bit Wiegand Burst providing 4 to 7 digit codes. Can be used standalone or added to some readers for Card + PIN operation.

5.125"H x 3.375"W x .4375"D / 12VDC @ 20ma

**DS-12-8C** 10 Digit Indoor/Outdoor Single Gang Keypad – 8 Bit Clock and Data providing up to 7 digit codes. Can be added to some barcode and magstripe readers with a clock and data output for Card + PIN operation.

5.125"H x 3.375"W x .4375"D / 12VDC @ 20ma

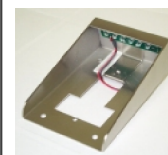
**DS-12-26** 10 Digit Indoor/Outdoor Single Gang Keypad – 26 Bit Wiegand providing up to 5 digit codes (65534 is highest number possible).

Can be added to some readers for Card or PIN operation.

5.125"H x 3.375"W x .4375"D / 12VDC @ 20ma

**SH34SI** Illuminated Spy Proof Housing for Single Gang Keypads (not for SL units)

5.5"H x 3.6875"W x 1.6875"D / 12VDC @ 40ma



#### **Mullion Mount Units-**

**DS-12-SL8** 10 Digit Indoor/Outdoor Slim Line Keypad – 8 Bit Wiegand Burst providing 4 to 7 digit codes. Can be used standalone or added to some readers for Card + PIN operation

7.125"H x 1.75"W x .75"D / 12VDC @ 20ma

**DS-12-SL26** 10 Digit Indoor/Outdoor Slim Line Keypad – 26 Bit Wiegand providing up to 5 digit codes (65534 is highest number possible). Can be added to some readers for Card or PIN operation

7.125"H x 1.75"W x .75"D / 12VDC @ 20ma



#### **Reader/Keypad Units-**

**PiezoProx-8** 10 Digit Indoor/Outdoor Single Gang Keypad with HID Prox Reader providing 4 to 7 digit codes. Used for Card + PIN operation.

**PiezoProx-26** 10 Digit Indoor/Outdoor Single Gang Keypad with HID Prox Reader providing 5 digit codes (65534 is highest number possible). Used for Card or PIN operation.





## Photo ID Badging

### ***Build Your Own:***

**CamKit**     CCD Camera, Lens, Flash built in, Tripod, VidCable  
(requires DSX-Features Key)

Note /// WinDSX software comes standard with file import capability at no extra charge. This allows you to import pictures taken without the use of a Features Key and CamKit. A digital camera with a live TWAIN interface driver will provide Live Image Capture in the DSX software without the use of the DSX Features Key.





## Direct Print Card Stock for Badging Systems

### ***Direct Print Cards:***

**CR-80M** 500 Mag. Stripe Direct Print Cards, 30 mil

**CR-80** 500 Plain White Cards, 30 mil

**FAR-81759** 500 Adhesive Back Direct Print Cards, 10 mil

HID Swipe, HID Proximity, and Indala Proximity Direct Print Cards can be found in their respective sections.



## PC Hardware Requirements

The DSX Windows XP Pro/Vista Business/7 Pro™ compatible Software has the following hardware requirements. These hardware specifications are minimum requirements, which can always be exceeded if desired. All PCs used in the WinDSX system must meet these minimum requirements for the system to be supported by DSX.

**Note** /// System performance is dependant on the PC and LAN processing speed. The faster the PC, LAN, and the more memory the faster the system will operate. If you have any questions regarding the DSX software and PC requirements, call DSX Technical Support.

### CPU Minimums

**Pentium 1.6 GHz (or better)** - Host PC for single PC, single location system, or LAN workstation for single location system. 512M RAM

**Pentium 1.8GHz (or better)** - LAN Comm Server or File Server for single location system, or workstation for multi-location system. 1G RAM

**Pentium 2.4GHz (or better)** - LAN Comm Server and/or combination File Server for multi-location system. 1G+RAM – minimum

### Windows™ Operating Systems

**7 Professional™** compatible with Version 3.7 / 4.7 & higher  
**Vista Business™** compatible with Version 3.7/4.7 & higher  
**XP Professional™** compatible with Version 3.5/4.5 & higher  
**2K Professional™ Service Pack 2** Version 3.1/4.0 & lower  
**2K Professional™ Service Pack 3** Version 3.5/4.5 & higher  
**Server 2000/2003/2008™** -compatible w/Version 3.5/4.5 & higher. Server 2000/2003/2008 requires Active Directory.  
**Microsoft SQL Server™ Version 2000/2005Sp3/2008** required only for SQL DataBase deployment and management. (Optional)  
WinDSX uses Microsoft Access™ and WinDSX SQL uses Microsoft SQL Server™. SQL Server Standard and Enterprise sourced separately.

### Memory

**512M of RAM Memory** - Basic System 512M minimum 1G+ recommended for multi-Location, multi-PC, Badging, LAN File Servers, and LAN Comm Servers.

### Back-up Device

**Back-up Drive** – Windows™ compatible device that is recognized as a logical drive by Windows.



### Drives

**One CD-ROM Drive 16x or better** -WinDSX is available on CD only.

**1Gigabyte Hard Disk Space or better** - The basic system software when installed is approximately 50M. The actual size required is dependant on the size of the database, the number and size of graphic maps, the number and size of card holder images, and the amount of history to be accrued.

### Monitors

**One color monitor SVGA 800 x 600** - The DSX Software is SVGA compatible. The program will not run in monochrome. 800 x 600 or better and small fonts is preferred.

65,000 colors or better if using badging and imaging features. 17" monitor preferred but not required.

### Local Area Network

**LAN Adapter Card 10/100 Mbit or better** LAN card is required for LAN applications only. 100Mbit is optimum. If there is no LAN use the MS-Loopback Adapter (virtual adapter provided on the appropriate Windows™ version distribution CD).

**TCP/IP** - This protocol must be loaded even if there is no LAN. This can be loaded with the MS-Loopback Adapter.

**Note** /// The Communication Server program (runs on the PC with the connection to the field controllers only) requires a static TCP/IP address and uses socket 22223/22224.

### Peripherals

**Serial Ports** - At least one serial port is needed for either direct or dial-up modem communications. It may be necessary to use a USB to serial adapter. Belkin Components F5U109/409 or equivalent device is required.

**Mouse** - Mouse and keyboard are required. Microsoft IntelliMouse® or equivalent recommended but not required.

**Modem** - DSX provided External modem only.

### Audible Device

**Sound Card** - Windows™ and Sound Blaster™ compatible PCI Bus sound card. WinDSX supports WAV files that are played back upon alarm.

## What is WinDSX SQL?

DSX now has two different versions of the WinDSX software. Our traditional WinDSX software and a version called WinDSX SQL. The difference between the two is the type of database used to store the system information. The WinDSX software uses Microsoft Access™ files to store data and the WinDSX SQL software uses Microsoft SQL Server™ to store data.

There are several differences between storing data in Access files and SQL Server. In order to define these differences I have to talk a little about how each one works. When using Access to store the data we have a centralized shared set of database files that reside on a file server. Each of the WinDSX workstations is capable of reading and writing data to and from the shared files. Each workstation is responsible for looking up data on it's own as well as it is responsible for writing any changes into the database.

With this type of a system you can see that there is a possibility for several different workstations to be reading and writing to the database at the same time. Also each workstation is pulling and pushing all of the database info through the LAN, which uses up bandwidth.

When using SQL Server to store the data we have a centralized set of database files that reside on the SQL Server PC. Each of the WinDSX workstations uses TCP/IP to make requests to the SQL Server. The SQL Server program executes the request and returns the results. This is very different than how things happen in the Access database.

When you use the Access version each workstation actually “touches” the database. With SQL Server only the SQL Server program touches the database. This results in a database that is much less susceptible to corruption. The risk of database corruption is decreased in two



different ways. First the liability of a network error causing corruption is eliminated, as the only program that touches the database is SQL Server that is running on the same PC with the database. Second the possibilities of simultaneous or conflicting writes to the same records are eliminated, as the SQL Server program will only service one request at a time.

Additionally SQL Server is designed to handle very large database files and a high number of users. Increasing resources (speed, RAM) to the SQL Server PC without making any hardware changes to the Workstations can enhance your systems overall performance. SQL Server also provides more security for the system data, as it is much harder to get to the data.

Basically SQL Server stands between the world and the data. Its job is to protect the data from unauthorized access, maintain the health of the database, and respond to requests from the workstations.

However, this additional robustness and security comes at a price. There needs to be a PC dedicated to running SQL Server, someone will have to purchase Microsoft SQL Server, and it is not inexpensive. Someone will have to administrate SQL Server. Setting up and maintaining a SQL Server PC is a profession; people who do it are called Data Base Administrators (DBA).

You will need a DBA or someone with extensive SQL Server experience to setup SQL Server and to keep it working. You will not be able to just send a regular field Technician to the site and tell him to figure it out. Additionally DSX cannot help you do it over the phone. If you don't have someone that already knows how to setup and administer SQL Server you need to contract someone to help you.

## When to use WinDSX SQL?

So now that we know what SQL Server is and how it is better, when do we need to use it? There are a few things that should be examined that will help you make the judgment call.

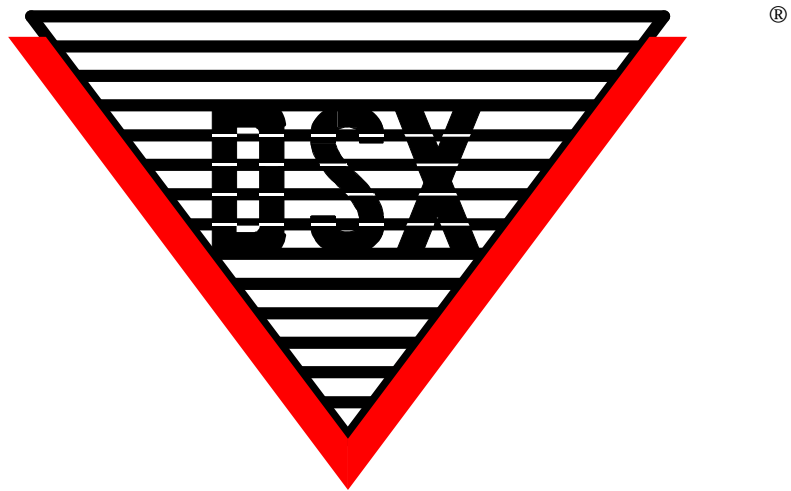
- m If there will be any workstations that will be attaching to the database through a WAN connection then you should definitely use SQL. A WAN connection would be any connection that is not at least 10 Mbit. An example would be that the network between two buildings is connected via a T1 line. The computers in the building that have to go through the T1 line would be considered on a WAN. The reason we would use SQL in this situation is that the WAN connection is slower and inherently more prone to errors. In the Microsoft Access database version of our software this would expose the database to a much higher potential risk of corruption.
- m If the network within a building (LAN) were not reliable then you would also want to use SQL Server. The reasons for this are the same as above. In order for an Access database to function well we require a very reliable link between the workstations and the file server.
- m If the customer wants to keep a lot of history on hand you should use SQL Server. It can manage very large database files and may allow a customer to keep years of history on line. This versus Access where the history log files must be archived regularly (monthly) to prevent them from getting to large.
- m If the customer is going to have a large population of Cardholders or is going to be making extensive changes to the database on a daily basis you should use SQL Server.



- m In a lot of cases the customers will ask for the SQL Server version if you let them know that it is available and that it provides a higher degree of security and reliability. It is a judgment call as to when to use it, but these are some good guidelines. Examine the needs of the customer and pick the product that fits the site.

*Remember to use SQL Server there must be a minimum of two PCs or computers. One PC is used to run the Microsoft SQL Server™ and one for the WinDSX SQL Communications Server. The WinDSX Communications Server cannot run on the same PC as Microsoft SQL Server™.*





**The Security Professionals' First Choice**