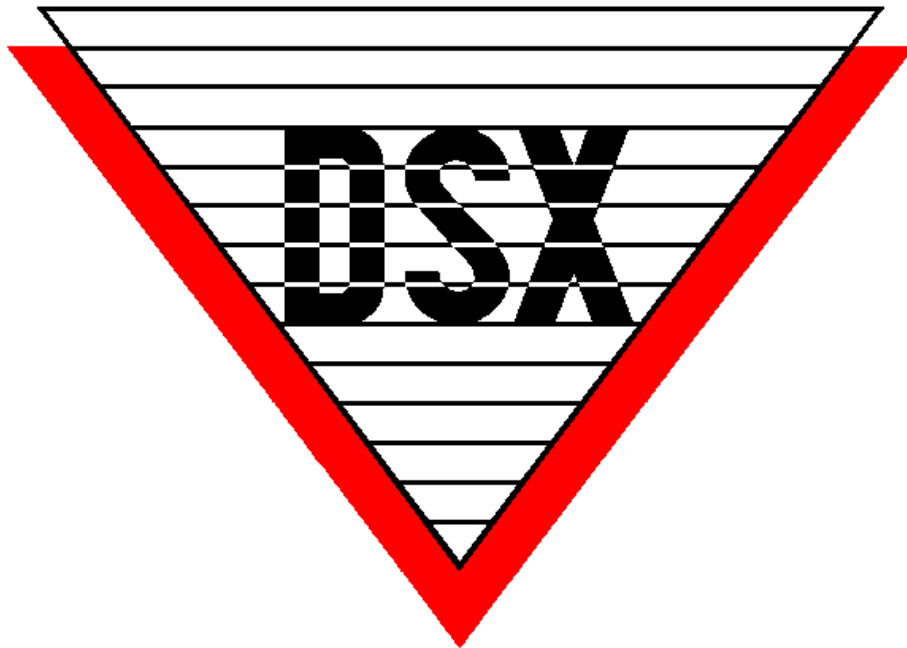


2005 Product Catalog



®

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

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Notes...





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. Each relay has a 1A fuse in line with the common terminal. 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



Lock Power Supplies:

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

DSX-AS150/15 110VAC to 15V 10A, 150 Watt Lock Power Supply for 12V Locks
4.3"W x 7.8"H x 1.9"D – 1.5lb. / 15VDC @ 10A



DSX-AS150/27 110VAC to 27V 5A, 150 Watt Lock Power Supply for 24V Locks
4.3"W x 7.8"H x 1.9"D – 1.5lb. / 27VDC @ 5.5A

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, one AS150 15V power supply, one 1040PDM Power Distribution Module. Lock Power Module is ordered separately. Backup Batteries are also sold separately for Controller Power and optionally for Lock Power



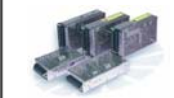
DSX-1040PE Power Distribution Panel Enclosure
15.5"W x 14"H x 6.0"D – 11.0lb. / Black Powder Coat



DSX-1040PDM Power Distribution Module
9"W x 5"H x 1.5"D – 1.3lb. /



DSX-AS150 15V, 10A, 150 Watt Power Supply for Panel Power
4.3"W x 7.8"H x 1.9"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. / 512K RAM – 512K Flash ROM
Requires >16.5VAC 40VA XFMR / 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.

DSX-1022PKG Intelligent Two Door Controller Package - New
Includes DSX-1022 listed above, 2 SR-2400 Prox Readers, 50 PL-CS Prox Cards, DSX-MCI, and 16.5VAC 40VA XFMR, and WinDSX WinStart. Requires 12V– 7AH Battery

DSX-1022-SMP System Monitoring Panel - New
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

I/O Extenders:

DSX-1043 Intelligent I/O Extender for the DSX-1022 and DSX-1042
2 Inputs, 16 Relay Outputs / 11"W x 4.5"H x 1.5"D – 1.6lb. / 13.5VDC @ 800ma

DSX-1044 Intelligent I/O Extender for the DSX-1022 and DSX-1042
32 Inputs, 4 Open Collector Outputs / 11"W x 4.5"H x 1.5"D – 1.2lb. / 13.5VDC @ 550ma

NEW

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

All DSX I/O Extenders listed here are connected to Slave Controllers only.





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



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 ± 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 ± 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

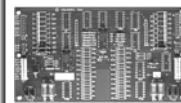




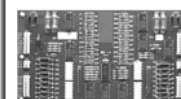
Reader / Keypad Interfaces

Reader Interfaces:

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-400 Series Keypad and Misc. 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



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. - 3"W x 2"H x 1.25"D / 12VDC @ 50ma





DSX System Software

Software:

WinStart WinDSX for WindowsNT/2000 Pro/XP Pro - 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.

WinStartSQL WinDSX for Microsoft SQL Server - Starter/Update Kit includes 1-WinDSX SQL Software CD, 1-Tech Binder and 2-WinDSX User Guides.

This product requires advanced configuration. The Dealer or End User must have a Microsoft SQL Server Administrator to install, configure, and maintain the SQL Server on site.
Does not include Microsoft SQL Server

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.

WinDSXSQL Upgrade CD WinDSXSQL Software on CD / no printed documentation – Software Installation and User Manuals are provided on CD in PDF format. Hardware manuals are not included. Requires Serial Number from original WinDSXSQL CD.

DVR Driver Digital Video Recorder Interface Driver for WinDSX 3.5/4.5 or higher. Driver must be specified for: Bosch DiBos, cVideo, Dedicated Micros, General Solutions, First Line (Integral), I3DVR, JDS, Kalatel, March Networks, Pelco 8000, and Salient Systems. For drivers pending call Technical Support. More than one driver can be used on the same system.

Soft I/O Soft IO 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.

Special Drivers: Added to the Base Cost of Soft I/O

- Kone Elevator High Level Interface** – Per Landing (per Cab specific Floor Select Button)
- OTIS Elevator High Level Interface** – Per Landing (per Cab specific Floor Select Button)
- SIA Automation Output from Digital Receiver**
- Toa Intercom**

PC Master DSX software that allows a PC to take the place of a Master Controller and communicate with slave panels using TCP/IP over a LAN/WAN. This is not required for PC to Master Controller communications using TCP/IP.

CopyLoc Import/Upgrade utility for Version 12 to WinDSX.





DSX-HSCS Hot Swap Comm Server

DSX-HSCS 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 and when 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.**
- 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:

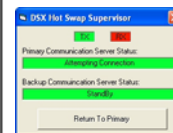
DSX-SPS Serial Port Switcher

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-SPS'T Serial Port Switch Trigger Module.





Documentation and Manuals

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



WinLitCD DSX Technical documents on CD. CD contains same documents as Tech Binder in Word format. 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 under “Requests” or by e-mail request at sales@dsxinc.com .





DSX Demo Units & Modems

DSX Demo Units:

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

DS-1042D 1-DSX-1042 controller, enclosure w/ handle, 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 w/handle, 2 million mount prox readers, cards, 1040CDM, DSX-1040 PDP, FRB8, communications cable, egress and door position switches all pre-configured.

DSX Modems:

SPI-1442-FI 14.4 Dial-Up Modem 1 year warranty
5"W x 5"H x 1.5"D –
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!





DSX LAN Communication Interfaces

LAN only:

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:

NEW

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.



The DSX LAN (M) products have a 2-Year Warranty !

DSX-LAN Features:

There are many real benefits to using the DSX-LAN. These benefits are both performance and ease of use and are outlined in the bullets below.

- Contains both an RS-232 and RS-485 communication port, This makes connecting it to any DSX Controller simple and without programming.
- The unit is Auto-sensing 10/100Mbit so just plug it in no matter what the speed of the customers LAN.
- Auto-duplexing allows it to work on any router it is connected to.
- The LAN module is powered from 12VDC @ 300ma which allows it to be powered from any DSX Controller. Powering it from a DSX Controller provides battery backup for the unit.
- Unit can be ordered with Dial-up Modem backup for added communications reliability.
- Can be programmed through a Serial Port using Kb2cW.
- Password protected programming.
- Programming completed with few entries.
- Can be programmed with Comm Servers IP address (Static) or can be set to (Dynamic) so it will reply to the Comm Server that communicates with it.



DSX Miscellaneous Items

DSX-TDM 4 Digit, 7 Segment LED, Time Display Module.

TDMs work between the PC and Master using a Direct or LAN connection, or on any Slave Controller.



DSX-1030PR5 Intelligent Processor to upgrade existing DSX-1032, 1033, 1034 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.
- 1/2 standard repair fee for rev 3 and higher controllers.
- 1020 series panels ordered with MX memory module do not incur repair charges for installation of module, only cost of module and RAM (if any) to be inserted by DSX.



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



The above products have a 1-Year Warranty !



AWID Proximity Readers – *New*

AWID Low Frequency 125 KHz Proximity Readers:

SR-2400 Mullion mount reader with 4 – 5.5” read range. Grey or Beige
Metal Compensated, Indoor/Outdoor, 1.8”W x 4.5”H x .7”D / 5-12VDC @ 40-70ma

MM-6800 Mullion mount reader with 6 – 8” read range. Grey or Beige
Metal Compensated, Indoor/Outdoor, 1.75”W x 6”H x 1”D / 5-12VDC @ 50-80ma

SP-6820 Single Gang mount reader with 6 – 8” read range. Grey or Beige
Indoor/Outdoor, 3.1”W x 4.6”H x .65”D / 5-12VDC @ 50-80ma

KP-6840-8 Single Gang mount reader/keypad with 6 – 8” read range. Dark Grey only
Keypad does 8 bit burst for Card + Pin applications. Indoor/Outdoor
3.1”W x 4.6”H x .875”D / 5-12VDC @ 50-120ma

KP-6840-26 Single Gang mount reader/keypad with 6 – 8” read range. Dark Grey only
Keypad does 26 bit for Card or Pin applications. Indoor/Outdoor
3.1”W x 4.6”H x .875”D / 5-12VDC @ 50-120ma

MR-1824 Medium Range reader with 18 – 24” read range . Dark Grey only
Indoor/Outdoor, 8”W x 8”H x 1.5”D / 5-12VDC @ 250-600ma

MR-1824MC Medium Range reader with approx. 16” read range . Dark Grey only
Metal Compensated, Indoor/Outdoor, 8”W x 8”H x 1.5”D / 5-12VDC @ 250-600ma

AWID High Frequency 902-928 MHz Proximity Reader:

LR-911 Long Range reader with 9 – 11’ read range. Beige Only
8”W x 8”H x 1.125”D / 6.5-15VDC @ 1A-.4A

Works only with High Frequency Tags

LRIN Long Range reader Install Kit
Provides Audible and Visual Feedback for Aiming the LR-911
Includes Sample Tags (WS &MT) and PS-12-1A Transformer

LRMB Long Range reader Mounting Bracket
The LRMB has two swivel bracket heads that facilitate the aiming of the LR-911
via flexible up/down and side/side movement.

Warranty

AWID low frequency proximity products have limited lifetime warranty.
AWID high frequency proximity products have limited 1 year warranty.

For More Information go to www.awid.com





AWID Proximity Cards – *New*

AWID Low Frequency 125 KHz Proximity Cards:

PL-GR Proximity Card, Graphics Quality both sides, ISO Compliant
3.375 x 2.125 x .033 inches

PL-GRMAG Proximity Card, Graphics Quality both sides, ISO Compliant
3 Track High Coercivity ABA Magnetic Stripe
3.375 x 2.125 x .033 inches

PL-CS Clam Shell style Proximity Card, prepunched for Portrait orientation
Can be used with adhesive back direct print card.
3.375 x 2.125 x .075

PL-KT Proximity Key Tag (fob)
2.0 x 1.24 x .35 inches

PL-PW Proximity Wafer, 1" diameter, adhesive backing



AWID High Frequency 902-928 MHz Proximity Tags:

PL-WS High Frequency, Windshield Tag, Adhesive backed
2.5"W x 1.6"H / **Works only with High Frequency Reader**

PL-MT High Frequency, Metal Mount Tag
8.07"W x 1"H x .16"D / **Works only with High Frequency Reader**

Warranty

AWID low frequency proximity products have limited lifetime warranty.
AWID high frequency proximity products have limited 1 year warranty.

For More Information go to www.awid.com





Integrated Engineering – Smart Card Technology

Smart Cards and Readers by Integrated Engineering

Call DSX for pricing and availability.

Go to www.smart-id.com for more information.



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 - 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, or 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, Grey, Black, or White
3"W x 4.7"H x .68"D / 5-16VDC @ 20-115ma / RR=4"-5.5"

ID-PR6030s ProxPro Plus Side Connect Proximity Reader **Discontinued by Manufacturer**
ID-PR6030r ProxPro Plus Rear Connect Proximity Reader **Discontinued by Manufacturer**

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"

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"

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"

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"

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"

HID/Schlage Retrofit Equipment:

ID-862814 5385 Multiprox Reader back mount / Replaces 2714 and 2814 Sensors
7.5"W x 7.5"H x .8"D / 24VDC @ 50ma / RR=2"-3"

ID-862815 5385 Multiprox Reader side mount
7.5"W x 7.5"H x .8"D / 24VDC @ 50ma / RR=2"-3"

ID-86808 6000 Schlage Retro Controller. 1 Controller per 8 doors
18"W x 10"H x 1.8"D / 24VDC @ 2A

ID-86744 6020 Schlage Retro MSM 1 HSM for each door
4.3"W x 4.4"H x 1.4"D





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-1376 HID Prox Plus with Wiegand / Same as W-Prox

2.125" x 3.375" x 0.037" – DSX 33bit unless other format is specified
MiniProx -up to 2" ThinLine II -up to 1.5" ProxPro -up to 3"
MaxiProx -up to 10"



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"

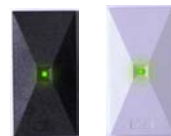




Pyramid Series Proximity Readers

Pyramid Proximity Readers:

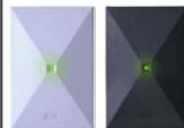
P- 300 Cascade Proximity Reader / Mullion Mount, 4" Read Range
 Includes Black and Off-White Covers / 1.5"W x 2.3"H x .49"D / 5-14VDC @ 80ma
P- 300-H is same as Doorframe reader above but with HID™ compatibility.



P- 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.



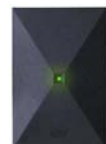
P- 600-8 Rocky Proximity Reader & Essex Keypad / 4" Read Range
 Includes Black and Off-White Covers / 3.9"W x 4.4"H x .95"D / 5-14VDC @ 90ma
 This Keypad has an 8 bit output for Card + PIN. The reader and keypad are controlled by the card reader and keypad time zones. The Time Zones determine when only 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.



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:

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



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

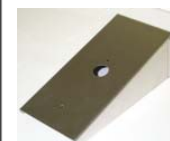
WP-10 Single Gang Wall Plate For MR-## Readers
Allows the reader to be mounted to a single gang electrical box. Color Matched to the readers. 2.75"W x 6.3"H

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 and Labels

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

IC-201 Pre-Printed Bar Code Labels

Laser Printed Avery Label sheet with Pre-Printed Barcodes.

ACM Adapter Mounting plate used to mount reader to single gang box or adapt it to replace older reader. This Mounting plate now comes with each new TKS-110 Reader.





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-SL 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

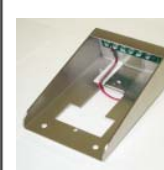
DS-12-SL26 10 Digit Indoor/Outdoor Slim Line Keypad – 26 Bit Wiegand providing up to 5 digit codes (65534 is highest number possible). Can be added to some readers for Card or PIN operation

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.





Magnetic Locks / Exit Buttons

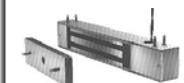
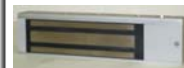
Dynalock Magnetic Locks:

2011 Dynalock 1200lb Single Mag Lock 12/24 AC/DC / Outswing Door
2.75"H x 11"W x 1.5"D / 12VDC @ 420ma / 24VDC @ 210ma

2022 Dynalock 1200lb Double Mag Lock 12/24 AC/DC / Outswing Doors
2.75"H x 22"W x 1.5"D / 12VDC @ 840ma / 24VDC @ 420ma

2511 Dynalock 650lb Single Mag Lock 12/24 DC / Outswing Door
1.75"H x 10.5"W x 1.25"D / 12VDC @ 500ma / 24VDC @ 250ma

2522 Dynalock 650lb Double Mag Lock 12/24 DC Outswing Door
1.75"H x 21"W x 1.25"D / 12VDC @ 1A / 24VDC @ 500ma



LOCK OPTIONS:

DYN = Dynastat Force Sensor

DSM = Door Status Switch

HSM = High Security Monitor includes DSM and DYN

TJ = Z Bracket

Lock Finish is Brushed Aluminum. Call for Special Finish Lock Prices

Dynalock Exit Buttons:

EXB-6251 NR Slim line Exit Button

1.75"W x 4.5"H / SPDT / 125VAC @ 5A / One side of switch to unlock Door and other Side of switch to signal Request to Exit Input on DSX Controller. NC and NO contacts.



EXB-6251 Single Gang Exit Button

2.75"W x 4.5"H / SPDT / 125VAC @ 5A / One side of switch to unlock Door and other Side of switch to signal Request to Exit Input on DSX Controller. NC and NO contacts.





Photo ID Badging

Complete System:

SW2 Badge Computer System/complete system with no Printer
Minimum PC Specs = P4 - 2Ghz and better, 128M of RAM, 20GB Hard Disk
40x CD ROM, 3.5" Floppy, on board NIC, 17" Monitor

"SW2" contains Pentium IV PC, ImgKey, CamKit, and KitAsm pre-configured and tested.

Build Your Own:

ImgKey USB - Live Image Capture Software Key for live video from CamKit.

CamKit CCD Camera, Lens, Capture Card, Flash, Tripod, VidCable (requires ImgKey)

KitAsm Labor to install a CamKit - in a PC you ship to us
(does not include Windows NT™) No Picture.

Note /// WinDSX software comes standard with file import capability at no extra charge.
This allows you to import pictures taken without the use of an ImgKey and CamKit.

Misc Parts:

ITI-3042 Video Imaging Capture Card (live video also requires ImgKey)

VidCable10 10' RGB/Composite Video Cable

VidCable25 25' RGB/Composite Video Cable

Pen1500 Digital Signature Capture Pad (requires ImgKey)





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 Motorola Proximity Direct Print Cards can be found in their respective sections.

PC Hardware Requirements

The DSX Windows NT/2000/XP compatible Software has the following hardware requirements. These 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 800 MHz (or better) - Host PC for single PC, single location system, or LAN workstation for single location system. 128M RAM

-

Pentium 1 GHz (or better) - LAN Comm Server or File Server for single location system, or workstation for multi-location system. 256M+ RAM

-

Pentium 1.8 GHz (or better) - LAN Comm Server and/or combination File Server for multi-location system. 512M+ RAM - minimum

Windows™ Operating Systems

XP Professional™ - compatible with WinDSX version 3.5/4.5 & higher

2K Professional™ Service Pack 2 - compatible with WinDSX version 3.1/4.0 & lower

2K Professional™ Service Pack 3 - compatible with WinDSX version 3.5/4.5 & higher

NT Workstation™ Version 4.0 w Service Pack 6a Server 2000/2003™ -compatible w/Version 3.5/4.5 & higher. Requires the use of Active Directory.

Microsoft SQL Server™ Version 7/2000 required only for SQL DataBase deployment and management. (Optional) WinDSX uses Microsoft Access™ and WinDSX SQL uses Microsoft SQL Server™. SQL Server sourced separately.

Drives

One CD-ROM Drive 6x or better -WinDSX is available on CD only.

-

One Floppy Drive - 3.5", 1.44M - History archives and database backups performed in WinDSX will utilize the floppy drive or other specified target.

-

1Gigabyte Hard Disk Space or better - The basic system software when installed is approximately 30M. 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.

Memory

128M of RAM Memory - Basic System. 128M minimum 256M+ recommended for multi-Location, multi-PC, Badging, LAN File Servers, and LAN Comm Servers.

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 10Mbit 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.

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 Windows 2000/XP™, or Windows NT™ compatible multi port board when more than two serial ports are 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 2000/XP™, Windows NT™, and Sound Blaster compatible PCI Bus sound card. WinDSX supports WAV files that are played back upon alarm.

Back-up Device

Back-up Drive - Windows 2000/XP™, Windows NT™ compatible device that is recognized as a logical drive by Windows. Large removable drives such as LS-120™, Zip™, or JAZ™ are recommended.

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?

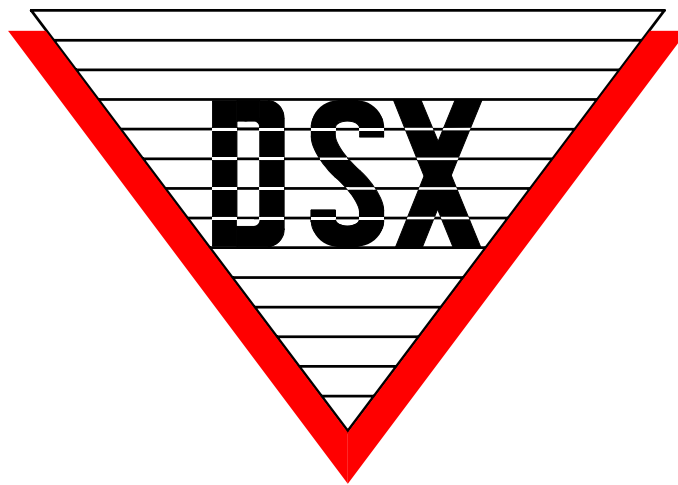


So now that we know what SQL Server is and how it is better, when do we need to use it? There are a few things that should be examined that will help you make the judgment call.

- 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.
- 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.
- 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.
- 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.

- 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™.



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