

Solecis[®] 4x1 4K HDMI Digital Switcher with DXLink[™] Output

SDX-414-DX (FG1010-314)

Overview

The Solecis SDX is a family of small digital AV switchers. The 4x1 4K HDMI Solecis Digital Switcher is a 4K and Ultra High Definition (UHD) capable solution that provides four user connection points and includes simplified local control which routes the selected signal to both a DXLink and HDMI output. This provides a simple, low cost solution that combines a DXLink Transmitter and digital switcher into a single small form factor device that is commonly used at a table.

COMMON APPLICATIONS

Solecis Digital Switchers are ideal for use in huddle spaces or small classrooms to provide simple switching for multiple sources. In larger rooms with multiple work spaces, a Solecis at each table or desk allows users to share content with the work group or the entire room. In even larger integrated environments Solecis digital switchers can provide easy to use source point switching and distance transmission over DXLink to an Enova DVX or DGX for hub-style building or campus-wide distribution.

FEATURES

- **4K and Ultra High Definition (UHD) Support** – Experience high-quality video resolution for 4K devices
- **Multiple Video, Audio and Ethernet Connections** – All the connections you need at the conference table including audio, video, control and network access
- **Switch Inputs Without the Need for a Central Controller** – Provides low cost solution for huddle spaces and classrooms
- **Works with HydraPort Single Button or Keypad Modules** – Provides an elegant installation in a table or lectern
- **Built-in Support for AxLink Keypads** – Forwards keypad commands to a central controller over Ethernet eliminating the need for a separate AxLink cable run

SPECIFICATIONS

GENERAL	
Dimensions (HWD)	1 11/16" (42.16 mm) x 8 3/4" (222.25mm) x 7" (177.8 mm)
Weight	3 lbs (1.4 kg)
Regulatory Compliance	RoHS FCC Class A CE UL-Listed CSA Approved IEC60950

	<p>UL94-V0 Flammability Rating</p>
Mounting Options	<p>Compatible with the following V Style mounting options:</p> <ul style="list-style-type: none"> • AVB-VSTYLE-SURFACE-MNT, V Style Module Surface Mount (FG1010-722) • NMX-VRK, V Style Rack Mounting Shelf (FG3201-60) • AVB-VSTYLE-POLE-MNT, V Style Module Pole Mount (FG1010-723)
Compatible AMX Enova DVX / DGX and DXLink Products	<ul style="list-style-type: none"> • Enova DGX 800/1600/3200/6400 Digital Media Switchers with DGX-I-DXL-4K DGX DXLink Twisted Pair 4K Input Board installed • DX-RX-4K, DXLink 4K HDMI Receiver Module as a point-to-point solution <p>NOTE: For passage of 4K signal content, 4K products must be used. Solecis 4K Digital Switchers are also compatible with DXLink Twisted Pair (non-4K) equipment and Enova DVX-3255HD, DVX-3155HD, DVX-3256HD, DVX-3156HD, DVX-2255HD and 2155HD All-In-One Presentation Switchers. Conditions may apply, please reference hardware reference manuals or contact technical support for details</p>
Optional Accessories	<ul style="list-style-type: none"> • PSR4.4, 13.5 VDC, 4x4 A Power Supply with 3.5 mm Phoenix Connector with Retention Screws (FG423-46) • PSN6.5, 13.5 VDC, 6.5 A Power Supply with (3) 3.5mm Phoenix Connectors (FG423-41) • AVB-VSTYLE-SURFACE-MNT, V Style Module Surface Mount (FG1010-722) • NMX-VRK, V Style Rack Mounting Shelf (FG3201-60) • AVB-VSTYLE-POLE-MNT, V Style Module Pole Mount (FG1010-723) • MET-6N, Metreau 6-Button Keypad with Navigation <ul style="list-style-type: none"> • White, MET-6N-WH (FG5794-01-WH) • Black, MET-6N-BL (FG5794-01-BL) • MET-7, Metreau 7-Button Keypad <ul style="list-style-type: none"> • White, MET-7-WH (FG5794-03-WH) • Black, MET-7-BL (FG5794-03-BL) • SP-08-AX-US, 8-Button KeyPad (US) with AxLink <ul style="list-style-type: none"> • White, SP-08-AX-US-WH (FG1311-08-SW) • Black, SP-08-AX-US-BL (FG1311-08-SB) • Brushed Aluminum, SP-08-AX-US-BA (FG1311-08-SA) • SP-08-AX-UK, 8-Button KeyPad (UK) with AxLink <ul style="list-style-type: none"> • White, SP-08-AX-UK-WH (FG1311-08-KW) • Black, SP-08-AX-UK-BL (FG1311-08-KB) • Brushed Aluminum, SP-08-AX-UK-BA (FG1311-08-KA) • SP-08-AX-EU, 8-Button KeyPad (Europe) with AxLink <ul style="list-style-type: none"> • White, SP-08-AX-EU-WH (FG1311-08-EW) • Black, SP-08-AX-EU-BL (FG1311-08-EB) • HydraPort with: <ul style="list-style-type: none"> • HPX-U400-MET-6N, Metreau 6-Button Keypad Kit with Carrier (FG554-11-BL-K) • HPX-U400-MET-7 Metreau 7-Button Keypad Kit with Carrier (FG554-13-BL-K) • HPX-U400-R-MET-6N Metreau 6-Button Keypad Ramp Mount Kit (FG564-11-BL)

	<ul style="list-style-type: none"> • HPX-U400-R-MET-7 Metreau 7-Button Keypad Ramp Mount Kit (FG564-13-BL) • CBL-HDMI-FL, HDMI High Speed Flat Cable (FG10-2180-16) • CBL-DP-FL, DisplayPort High Speed Flat Cable (FG10-2181-16) • CBL-ETH-FL, Ethernet Flat Cable (FG10-2182-16) • CBL-RGB+A-FL, RGB with Audio Flat Cable (FG10-2183-16) • CC-USB, USB Programming Cable (FG10-5965)
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SIGNAL TRANSPORT – DXLink	
Connector	(1) RJ-45
Supported Signal Styles	Digital video, audio, Ethernet, bi-directional control
Transport Layer Throughput (Max)	10.2 Gbps
Twisted Pair Cable Type	Shielded Cat6, Cat6A and Cat7 DXLink twisted pair cable runs for DXLink equipment shall only be run within a common building where a common building is defined as: the walls of the structure(s) are physically connected and the structure(s) share a single ground reference
Twisted Pair Cable Length	Up to 328 ft (100 m)
HDCP Support	Yes

ACTIVE POWER REQUIREMENTS	
Voltage, DC (Typical)	12 VDC
Power Consumption (Max)	18 W
Power Connector	2-pin 3.5 mm Screw Retention Connector

POWER SUPPLY	
External, Required	Optimal performance requires use of one of the following AMX power supplies (not included): <ul style="list-style-type: none"> • PSR4.4, 13.5 VDC, 4.5 A Power Supply with 3.5mm Phoenix Connector with Retention Screws (FG423-46) • PSN6.5, 13.5 VDC, 6.5 A Power Supply with (3) 3.5mm Phoenix Connectors (FG423-41)

ENVIRONMENTAL	
Temperature (Operating)	32° to 104° F (0° to 40° C)
Temperature (Storage)	-22° to 158° F (-30° to 70° C)
Humidity (Operating)	5% to 85% RH (non-condensing)
Humidity (Storage)	0% to 90% RH (non-condensing)

FRONT CONNECTORS	
Advanced Configuration Interface	(1) USB Mini-B Connector
ID Pushbutton	(1) ID Pushbutton, can be used to assign the unit's Device ID, switch between Static and Dynamic IP addressing modes, and reset the unit to factory defaults

BACK CONNECTORS	
HDMI Input	(4) HDMI Type A Female Connectors
HDMI Output	(1) HDMI Type A Female Connector
DXLink Output	(1) RJ-45 Connector
Ethernet LAN OUT	(2) RJ-45 Connectors
Local Power	(1) 2-Pin 3.5mm Screw Terminal Connector with Retention Screws
External Button/LED Control Connections	(4) 3-pin, 3.5mm Screw Terminal Connectors
AxLink Keypad Control	(1) 4-pin, 3.5mm Screw Terminal Connector

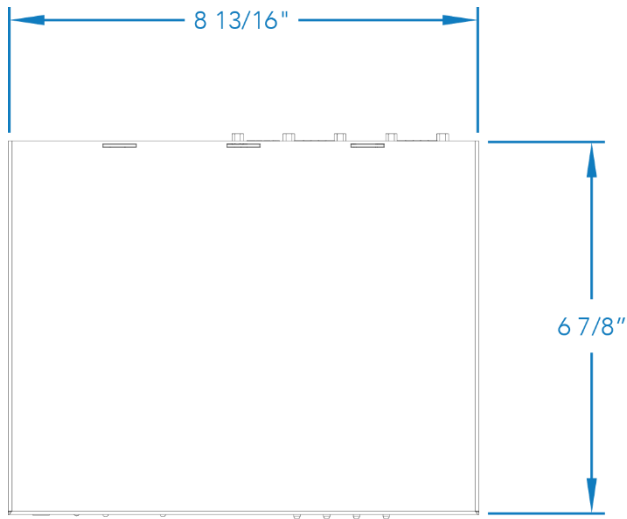
ETHERNET	
Ethernet Connections	(2) RJ-45, 10/100 Port provides TCP/IP communication. This is an Auto MDI/MDI-X enabled port, which allows you to use either straight-through or crossover Ethernet cables. The Ethernet Port LEDs show communication activity, connection status, speeds, and mode information
Ethernet Link/Act Indicator	(1) Link/Activity LED (green) blinks when receiving Ethernet data packets, one on Ethernet RJ-45 connector and one on the front panel
Ethernet Speed Indicator	(1) Speed LED (yellow) lights On when the connection speed is 100 Mbps Ethernet connection and turns OFF when the speed is 10 Mbps

CONTROLS & INDICATORS	
AxLink Keypad Port	(1), 4-pin 3.5 mm captive-wire connector, provides data and power to up to 2 external AxLink Keypads
AxLink Indicator	(1) AxLink Keypad LED (green) indicates the state of the AxLink Keypad port
LINK/ACT Indicator	(1) LED (green), lights when the Ethernet cable is connected and an active link is established. This LED also blinks when receiving Ethernet data packets
Status Indicator	(1) LED (green), indicates boot and connection status
Power Indicator	(1) Power LED (green) indicates the unit is powered on
Signal Indicator	(4) Signal LEDs (green) indicate that video signal is present
HDCP Indicator	(4) HDCP LEDs (yellow) indicate that source video is encrypted
Select Indicator	(4) SELECT LEDs (green) indicate which video input is currently routed to the output
ID Pushbutton	

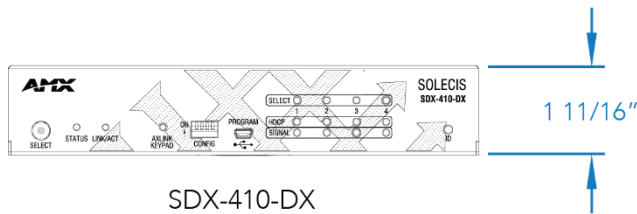
INTEGRATED SWITCHER	
Video Switching	4x1 (dual) audio/video switching, any of 4 inputs can be routed to the HDMI and DXLink output simultaneously
Video Inputs	(4) HDMI; supports HDMI/HDCP
Video Outputs	(1) HDMI; supports HDMI/HDCP (1) DXLink; supports digital video, audio, Ethernet, and bi-directional control
HDCP Support	Yes
Select Pushbutton	Press to manually switch the input routed to the output. Each press switches to the next input in order, or if the last input is currently selected, switches to the first input.

HDMI	
Compatible Formats	HDMI, HDCP , DVI
Input Signal Type Support	HDMI DVI-D (Single Link With Cable Adapter) DisplayPort ++ (Input Only, With HDMI Cable Adapter)
Input Connectors	(4) HDMI Type A Female
Output Signal Type Support	HDMI, HDCP, DVI
Input Re-clocking (CDR)	Yes
Deep Color Support	Yes
Color Space Support	RGB 4:4:4 YCbCr 4:4:4 and 4:2:2 (Input signal support for YCbCr 4:4:4 and 4:2:2, output color-space is converted to RGB 4:4:4)
3D Format Support	Yes (HDMI Primary Formats) Frame Packing 1080p up to 24Hz Frame Packing 720p up to 50/60Hz Frame Packing 1080i up to 50/60Hz Top-Bottom 1080p up to 24Hz Top-Bottom 720p up to 50/60Hz Side-by-Side Half 1080p up to 50/60Hz Side-by-Side Half 720p up to 50/60Hz 3D supported when the HDMI DXLink RX Scaler is in Bypass mode and format is 1080p60 or less
4K Resolution Support	<ul style="list-style-type: none"> • 3840 x 2160p @ 24/25/30 Hz • 4096 x 2160p @ 24/25/30 Hz • 3840 x 2160p @ 60 Hz, 4:2:0* • 4096 x 2160p @ 60 Hz, 4:2:0* <p>* Supported by DX-RX-4K when in Bypass Scaling mode NOTE: See full list of supported formats in "DXLink Twisted Pair 4K Transmitters and Receivers Hardware Reference Manual".</p>
Audio Format Support	Dolby TrueHD, Dolby Digital, DTS-HD Master Audio, DTS, 2 CH through 8 CH L-PCM Dolby Digital and DTS support up to 48kHz, 5.1 channels
Audio Resolution	16 bit to 24 bit
Audio Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 96 kHz, 192kHz
HDCP Support	Supports AMX HDCP InstaGate Pro Technology When used with an AMX Digital Media Switcher the key support is up to 16 sinks per output, independent of source device When used as a single point-to-point solution the key support is defined by the source device

For a more detailed pictorial drawing please visit: <http://www.amx.com/products/SDX-410-DX.asp>



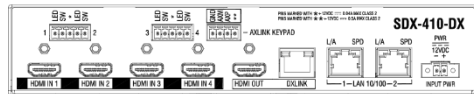
SDX-410-DX
(Top View)



SDX-410-DX
(Front View)



SDX-410-DX
(Left View)



SDX-410-DX
(Back View)



SDX-410-DX
(Right View)

About AMX by HARMAN

Founded in 1982 and acquired by HARMAN in 2014, AMX® is dedicated to providing AV solutions for an IT World. AMX solves the complexity of managing technology with reliable, consistent and scalable systems comprising control, video switching and distribution, digital signage and technology management. AMX systems are deployed worldwide in conference rooms, classrooms, network operation/command centers, homes, hotels, entertainment venues and broadcast facilities, among others. AMX is part of the HARMAN Professional Group, the only total audio, video, lighting, and control vendor in the professional AV market. HARMAN designs, manufactures and markets premier audio, video, infotainment and integrated control solutions for the automotive, consumer and professional markets. Revised 8.9.16. ©2016 Harman. All rights reserved. Specifications subject to change.

www.amx.com | +1.469.624.7400 | 800.222.0193