

FDX-S Input / Output Boards



Input & Output Boards for FDX-S Series

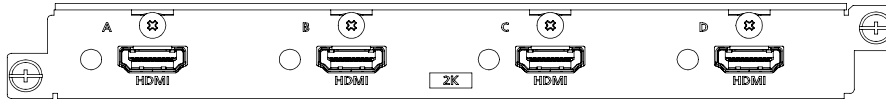
FDX-SIV4H – Input Board



The FDX-SIV4H is a four-input HDMI board designed for FDX-S series Modular Matrix Switchers. The board supports HDMI and DVI at video resolutions up to 4K@30 and complies with HDCP 1.4.

Item		Description
Input		4 inputs
Video	HDMI/DVI	HDMI/DVI 1.0 TMDS single link, HDCP 1.4 TMDS clock: 25 MHz to 300 MHz, TMDS data rate: 0.75 Gbps to 9 Gbps 36 bit Deep Color x.v.Color/3D/ARC/HEC/CEC/HDR are not supported. EDID emulation
	Format	VGA to 4K (Dot clock: 25 MHz to 300 MHz) For WUXGA/QWXGA, only Reduced Blanking is supported. 480i / 480p / 576i / 576p / 720p / 1080i / 1080p / 4K For 4K format, 24 Hz/25 Hz/30 Hz are supported.
Audio	Digital	Multi-channel LPCM up to 8 channels Sampling frequency: 32 kHz to 192 kHz, Sample size: 16 bit to 24 bit Reference level: -20 dBFS, Max. input level: 0 dBFS
Connector		Female HDMI Type A (19-pin)
Maximum transmission distances		98 ft. (30 m) (1080p@60), 66 ft. (20 m) (4K@30) (*1)
General	Power consumption	About 11 Watts
	Weight	0.7 lbs. (0.3 kg)
	Temperature	Operating: 32°F to 104°F (0°C to +40°C) Storage : -4°F to +176°F (-20°C to +80°C)
	Humidity	Operating/Storage: 20% to 90% (Non Condensing)

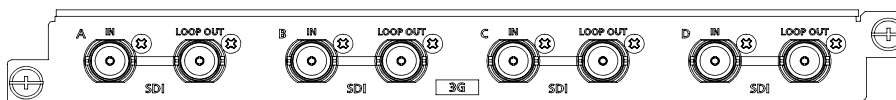
*1 The maximum cable distance varies depending on the connected devices and was measured under following conditions:
 - 1080p@60 : When IDK's 24 AWG cable was used and signals of 1080p@60 24 bit/pixel (8 bit/component) was input.
 - 4K@30 : When IDK's 24 AWG cable was used and signals of 4K@30 24 bit/pixel (8 bit/component) was input.
 The maximum cable distance depends on the connected devices. The distance may not be extended with some device combinations, cabling method, or other manufacturer's cable. Video may be disturbed or may not be output even if signals are within the range mentioned above.



FDX-SIV4S – Input Board

The FDX-SIV4S is a four-input SDI board with loop-through designed for FDX-S series Modular Matrix Switchers. The board supports 3G-SDI, HD-SDI, and SD-SDI and receives video signals from source devices up to 300 m over coaxial cables.

Item		Description
Input		4 inputs (With loop-through output) Note: When the FDX-S is powered on, SDI input signals are output from SDI loop-through output connectors.
Video	SDI	3G-SDI/HD-SDI/SD-SDI NRZI/NRZ, 0.8 V _[p-p] /75 Ω SMPTE 424M (3G-SDI)/SMPTE 292M (HD-SDI)/SMPTE 259M-C (SD-SDI)
	Format	480i / 576i / 720p / 1080i / 1080p 3G-SDI signals: Level A and Level B 720p: 23.98 Hz and 24 Hz are not supported.
Audio	Digital	LPCM up to 8 channels (Selecting 2 groups of audio groups 1 to 4) Sampling frequency: 48 kHz, Sample size: 16 bit to 24 bit Reference level: -20 dBFS, Max. input level: 0 dBFS
Connector		BNC
Cable		75 Ω coaxial cable for high frequency signal
Maximum transmission distances		With 1505A (BELDEN RG-59), SD-SDI: 1083 ft. (330 m)/HD-SDI: 656 ft. (200 m)/3G-SDI: 394 ft. (120 m) With 1694A (BELDEN RG-6), SD-SDI: 1312 ft. (400 m)/HD-SDI: 787 ft. (240 m)/3G-SDI: 459 ft. (140 m) * The maximum distances may be shorten depending on the quality of cable. Please make sure that the cable is long enough.
Function		3G-SDI/HD-SDI/SD-SDI input
General	Power consumption	About 30 Watts
	Weight	0.9 lbs. (0.4 kg)
	Temperature	Operating: 32°F to 104°F (0°C to +40°C) Storage : -4°F to +176°F (-20°C to +80°C)
	Humidity	Operating/Storage: 20% to 90% (Non Condensing)



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