FDX-S Output Board
FDX-SOV4US

The FDX-SOV4US is a four-output SDI board designed for FDX-S Modular Matrix Switchers.
The board supports 12G-SDI, 6G-SDI, 3G-SDI, and HD-SDI and receives video signals from source devices that are up to 820 ft. (250 m) away over coaxial cables. Additionally, the FDX-SOV4US also features multiple link (DUAL LINK 3G, DUAL LINK 6G 2SI, and QUAD LINK 3G LEVEL A 2SI [2 Sample Interleave]) that supports conversion from input signal to DUAL LINK 3G-SDI, DUAL LINK 6G-SDI, QUAD LINK 3G-SDI.

■ Specification

Item			Description
The number of output			4 (SINGLE LINK) 2 (DUAL LINK) 1 (QUAD LINK)
Input	Video	Format	720p to 4K (Dot clock: 74.25 MHz to 600 MHz) 720p / 1080i / 1080p / 4K 　For 4K formats, 24 Hz/25 Hz/30 Hz/50 Hz (4:4:4)/60 Hz (4:4:4) are supported.
	Audio	Digital	Multi-channel LPCM up to 8 channels Sampling frequency: 48 kHz, Sample size: 16 bit to 24 bit Reference level: -20 dBFS, Max. input level: 0 dBFS
Output	Video	SDI	12G-SDI/6G-SDI/3G-SDI/HD-SDI NRZI/NRZ, 0.8 V[p-p]/75 Ω SMPTE ST-2082-1 (12G-SDI)/SMPTE ST-2081-1 (6G-SDI)/SMPTE 424M (3G-SDI)/SMPTE 292M (HD-SDI)
		Format	720p / 1080i / 1080p / 4K 　3G-SDI signals　: Only Level A 　Multiple link　　: 2SI (2 Sample Interleave) 　720p　　　　　　: 23.98 Hz and 24 Hz are not supported.
	Audio	Digital	LPCM up to 8 channels (Selecting 2 groups of audio groups1 to 4) Sampling frequency: 48 kHz, Sample size: 16 bit to 24 bit Reference level: -20 dBFS, Max. output level: 0 dBFS
Connector			BNC
Cable			75 Ω coaxial cable for high frequency signal
Maximum transmission distances (*1)			With 1505A (BELDEN RG-59), 　HD-SDI: 7.9 ft. (200 m)　3G-SDI: 5.1 ft. (130 m) With 1694A (BELDEN RG-6), 　HD-SDI: 820 ft. (250 m)　3G-SDI: 525 ft. (160 m)　6G-SDI: 262 ft. (80 m)　12G-SDI: 197 ft. (60 m)
Functions			12G-SDI/6G-SDI/3G-SDI/HD-SDI can be mixed (When gearbox function (*2) is disabled) Gearbox (DUAL LINK 3G: equivalent to 6G-SDI; DUAL LINK 6G 2SI: equivalent to 12G-SDI; QUAD LINK 3G LEVEL A 2SI: equivalent to 12G-SDI) Color format conversion: From RGB or YCbCr 4:4:4 to YCbCr 4:2:2
General	Power consumption		About 35 Watts
	Weight		1.1 lbs. (0.5 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 distances may be shorten depending on the quality of cable. Please make sure that the cable is long enough.
　　 The maximum distances are for when connected to FDX-SIV4US.
*2 　Can be enabled/disable separately for each board, and it converts signal from each input board to DUAL LINK 3G-SDI, DUAL LINK 6G-SDI, or QUAD LINK 3G-SDI.

■ Panel

IDK Corporation