

Data Sheet: F-1V2A1ASI

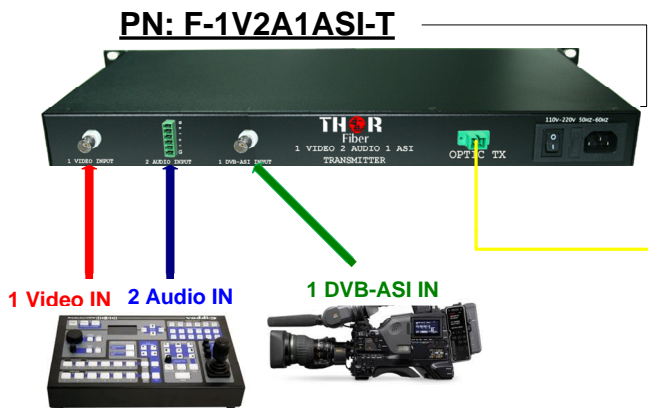


We offer off the shelf and custom solutions for multiplexing many types of signals onto a single fiber. A common request is to transport DVB-ASI channels over fiber in addition to baseband video and audio.

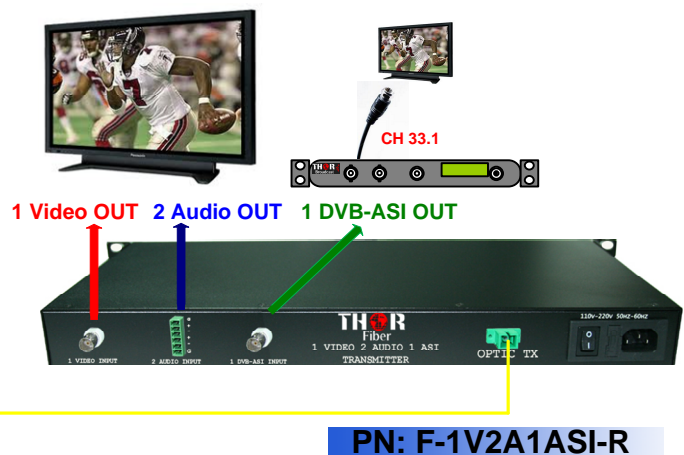


The F-1V2A1ASI is a video multiplexer and video to fiber system that carries one channel of baseband video, two channels of audio, and one DVB-ASI or SDI channel over a single fiber. We can also build units with more video, audio, or ASI channels by request. We also offer bi-directional transport over a single fiber. Meaning we can transport signals in both directions at the same time over just one fiber. The video and audio signals are transported by 10 bit digital transmission techniques which eliminates signal degradation. Our units work with standard singlemode or multimode optical fiber with fiber optic transmission distances of up to 120 km when used with singlemode fiber.

Typical F-1V2A1ASI Application



Up to 120km Singlemode Fiber



Technical Specifications

Applications:	SMPTE 259M, SDI or D1 SMPTE 31 OM, MPEG2 SMPTE 305 540 Mbps HDTV Video On Demand TS MPEG Encoder DVB-ASI ASI 0.5Mbps – 622Mbps	Optical Wavelength	1310 – 1550 nm FP/DFB
Standards	NTSC, PAL, SECAM	Optical Output Power	0 to -5 dbm
Channels	1 x Baseband Video, 2 x Audio, 1 x DVB-ASI	Optical Budget loss	24 – 32 dB
Video Bandwidth	10 Hz to 6.5 MHz	Optical Return Loss	40 dB
SNR/dP/dG	67 dB, < 1 deg / < 1%	Power Consumption	8 W
Video I/O	BNC, 1V p-p, 75 ohm	Power Connection	110-240 V Auto Sense
Stereo Audio I/O	Terminal Block, 1V p-p, 10 Kohm	Optical Connector	SC/APC or by request
High Speed Data	BNC, 1V p-p, 75 ohm DVB-ASI@270 Mbps, SMPTE 310M@19.4 Mbps	Copper Connections	BNC, 75 ohm
		Dimensions (H x W x D)	19in x 11.0in x 1.75in 480mmX225mmX44mm
		Weight	0.75 Kg
		Operating Temp. (°C)	0 to +50 (°C)
		Storage Temp. (°C)	-20 to +70 (°C)
		Operating Humidity (%)	0 to 90 %
		Storage Humidity (%)	0 to 90 %
		Regulatory Compliance	FCC Part 15 Class A CE, UL, CUL, TUV