

# Data Sheet: F-1ASI

## DVB-ASI Over Fiber Transport

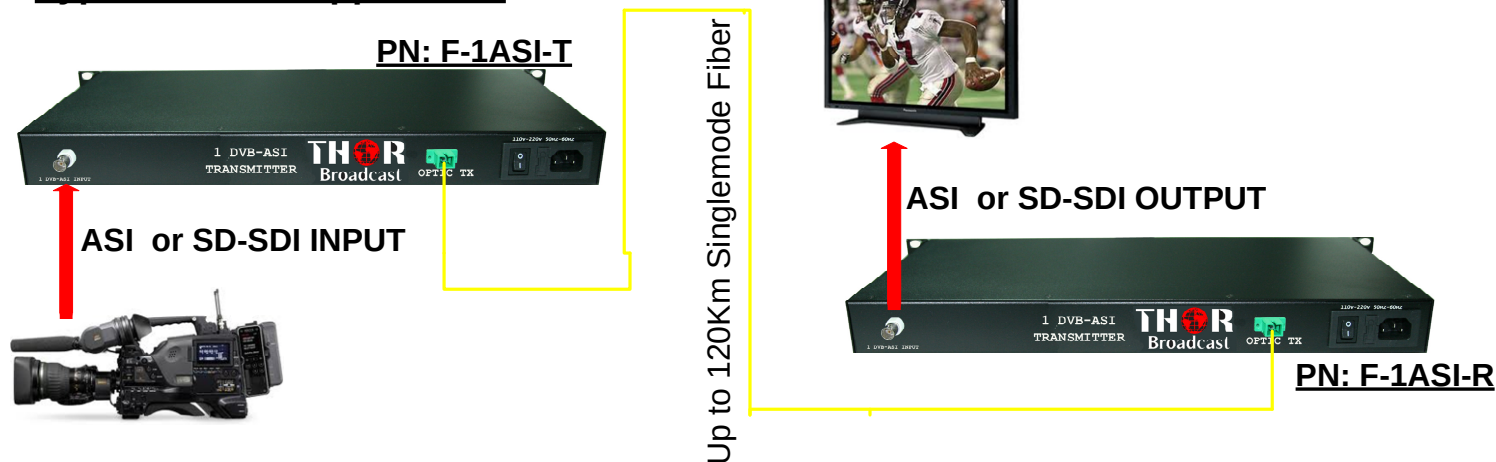


The F-1ASI is a copper to fiber media adapter for both DVB-ASI and SD-SDI signals. This is our standard asi over fiber transport unit for the broadband and broadcast industry.



The F-ASI units are used in various applications for extending ASI and SDI video signals over singlemode fiber. ASI or SDI fiber optic transport is based on the conversion of the transport streams digital band to an optical carrier signal which can be broadcast at distances of up to 120 Km. The unit can be single, dual, or have up to eight independent multiplexed channels. The standard input for the ASI or SDI inputs is a BNC connector however other connectors may be used if specified. The signal channels can carry either a DVB-ASI signal or an SD-SDI signal. The signal is modulated onto a single fiber for transport. The signal is then demultiplexed at the receiver. The F-ASI unit provides up to 8 fully independent DVB-ASI/SDI pipes. We offer both compact and rackmount units. The optical connections can be configured for SC, SC(APC), ST, or FC connectors. The F-1ASI features easy to read diagnostic LED's for system and link status.

### Typical F-1ASI Application



### 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  
1310 – 1550 nm FP/DFB

Optical Wavelength  
Optical Output Power  
Optical Budget loss  
Optical Return Loss

6.0 dbm  
24 – 32 dB  
40 dB

Power Consumption  
Power Connection  
Optical Connector  
Copper Connections  
Dimensions (H x W x D)

Weight  
Operating Temp. (°C)  
Storage Temp. (°C)  
Operating Humidity (%)  
Storage Humidity (%)  
Regulatory Compliance

8 W  
110-240 V Auto Sense  
SC/APC or by request  
BNC, 75 ohm  
19in x 11.0in x 1.75in  
480mmX225mmX44mm  
0.75 Kg  
0 to +50 (°C)  
-20 to +70 (°C)  
0 to 90 %  
0 to 90 %  
FCC Part 15 Class A  
CE, UL, CUL, TUV