

# MPEG Transport Stream Fiberoptic Converter



Model **CL-350S**



DVB-ASI  
SMPTE 310M  
DVB SPI (LVDS)  
Fiberoptic interface

The CL-350S is a robust MPEG transport stream converter that is compliant with both ATSC and DVB standard. It converts MPEG transport stream streams between ASI, SMPTE 310M & DVB SPI (LVDS). Any of the three formats at the input is converted into all three formats (ASI, SMPTE 310M and DVB

SPI (LVDS)), available simultaneously, at the output. Output is also converted to the fiberoptic signal and can be transported up to 110km (two units are required).

## Features

- All outputs are active simultaneously
- Packet size is selectable between 188 and 204 bytes
- Configuration settings are retained in the event of a power loss
- Interfaces: ASI, SMPTE 310M and DVB SPI (LVDS)
- 4K by 9bit buffers are included at each SMPTE 310M and DVB SPI (LVDS) output to manage short data bursts and to ensure smooth conversion
- The SMPTE 310M output has a null packet insertion capability that converts lower input bit rate transport streams to the ATSCw 19.392654 MHz data rate. Null packet insertion ensures that the converted streams playback smoothly without artifacts
- DVB-ASI Data Rate: 270 MHz +/- 100pm
- Bidirectional Transmission available

## Model Selection

<b>CL-350S</b>	MPEG transport stream converter with fiberoptic interface, 1 Fiber, 40km
<b>CL-350S/80</b>	MPEG transport stream converter with fiberoptic interface, 1 Fiber, 80km
<b>CL-350S/110</b>	MPEG transport stream converter with fiberoptic interface, 1 Fiber, 110km

Other Connectors and Distances Available Upon Request

## Example Application

DVB-ASI OR SMPTE 310M



Converted SMPTE 310M  
or DVB-ASI



Converted SMPTE 310M  
or DVB-ASI

## Specifications

### Interface Specifications

#### ASI

Connector: BNC 75 ohm  
Data Rate: 270 MHz +/- 100pm in, +/- 3ppm out  
Logic Levels: 800mV +/- 10%  
Data Rate: Accuracy: 3ppm

#### SMPTE 310M

Connector: BNC 75 ohm  
Data Rate: 19.392654 MHz  
Format: Bi-phase-mark coding  
Max Jitter: 1ppm

#### DVB SPI (LVDS)

Connector: DB-25 Female  
Max Speed/Clock Input: 13.5 MHz  
Max Data Rate: 13.5 Mbps  
Min Differential Input: 100mV  
Input Termination: 100 ohm  
Differential Output: 247mV Min, 340mV Typical, 454mV Max at 100 ohm load termination

#### FIBEROPTIC

SC connector  
Optical transport of converted signals SMPTE 310M and DVB-ASI up to 110km

### LED Indicators

Power, Signal Input Select Optical Signal Detect

### Dimensions

480mm x 225mm x 44mm

### Environment

Operating temperature: 0°C to 50°C  
Storage temperature: -20°C to 70°C  
Operating humidity: 10% to 90% RH  
Storage humidity: 5% to 90% RH

### Input Power Requirements

#### Electrical Specifications

Maximum Power: 25W  
Supply Voltage Range: 110-240V Auto-sense Internal Power  
Power Plug: IEC-C-19  
Protection: 3A, 250V Fuse  
Cooling Fan Capacity: 6 CFM Back Exhaust