

HD-1500 Series

**HD-SDI, SDI & DVB/ASI, Multirate,
Fiber Optic Transport Link**



SUMMARY

- An economical solution for the **fiber optic transport** of **5 Mbps to 1.5 Gbps HDTV signals**.
- Supports the **SMPTE 292M 1.485 Gbps standard**.
- Supports the SMPTE 259M 270Mbps standard.
- Supports the SMPTE 310M 19.4Mbps, M2S or DVB-ASI 270Mbps, SMPTE 344M 540Mbps and SMPTE 305M SDTi rates.
- Supports embedded audio and data. Audio and data must be embedded externally.
- Loop-through Input; Equalized, Re-clocked and Buffered.
- Dual Re-clocked Outputs.
- Stand-alone unit ideal as a Throw Down for Field Applications.
- Rack-mountable with Optional -RM6.
- 6 Units will mount in 1 Rack-Unit.
- Singlemode link distance up to 20KM at 1.485Gbps.
- Multimode operation typically more than 200 meters.
- Small rugged portable configuration.
- Available with ST, LC or FC optical connectors.
- Error free pathological pattern operation.
- External Battery operation from 5 to 16 VDC.
- Wall-mount power supply included, 5 VDC.



Small, Compact with Re-clocked, Loop-Through Input and Dual Re-clocked Outputs

DESCRIPTION

The HD-1500 is an economic solution designed for transmission of SDI and HD-SDI TV signals on single mode fiber optic cable. Perfect for today's professional and broadcast applications. Stand alone or rack card configurations simplify mounting.

Applications include video production, video editing, ENG, computer networking and transport links for STL, studio to studio and studio to CATV head end.



6 Units will mount in 1 Rack-Unit, Option -RM6

HD-1500-FTX-50-ST 1.5 Gbps, Multirate, Serial Digital Video Fiber Optic Transmitter

- Unit I/Os:
 - One coaxial input,
 - One re-clocked loop-through,
 - One fiber optic output
 - One 5 – 16 VDC power port.
- LED indicators for Data Rate, HD, Lock and Power

Specifications: **Input:** Type: 1 BNC. Impedance: 75 Ohms. **Return Loss:** >18dB up to 270MHz.
Output: 1 BNC Re-clocked Loop- through Output. **Fiber Output:** Type: ST, LC or FC.
Wavelength: 1310 Singlemode or Multimode. **Power:** -12 dBm

HD-1500-FRX 1.5 Gbps, Multirate, Serial Digital Video Fiber Optic Receiver

- Unit I/O's:
 - One fiber optic input
 - Two re-clocked coaxial outputs
 - One 5 – 16 VDC power port.
- LED indicators for Data Rate, HD, Lock and Power

Specifications: **Fiber Input:** Type: ST, LC or FC. **Wavelength:** 1310nm. Sensitivity: -20 dBm. **Output:** Type: 2 BNC.
Return loss: >18dB up to 270MHz.

ORDERING INFORMATION

FIBER OPTICS, 1.485 Gbps Serial Digital Transport for HDTV, Stand Alone:

HD-1500-FTX-50-ST	1.5 Gbps Multirate Serial Digital Video Fiber Optic Transmitter, 5 - 1485 Mb/s, DVB/ASI, SMPTE 292M/259M/310M, 1310nm Singlemode Laser, -12 dBm, 20 KM, Stand-alone & Rack-mountable, wall-mount power supply included. (May require -RM6 & -BLANK) (Includes wall-mount power supply) (Specify ST, LC or FC Connectors)
HD-1500-FRX-50-ST	1.5 Gbps Multi-rate Serial Digital Video Fiber Optic Receiver, 5 - 1485 Mb/s, DVB/ASI, SMPTE 292M/259M/310M, Re-clocker, 1310nm Singlemode, -20 dBm sensitivity with ST connector, Stand-alone & Rack-mountable, wall-mount power supply included. (May require -RM6 & -BLANK) (Includes wall-mount power supply) (Specify ST, LC or FC Connectors)
HD-1500-FTX-2-ST	1.5 Gbps Multirate Serial Digital Video Fiber Optic Transmitter, 5 - 1485 Mb/s, DVB/ASI, SMPTE 292M/259M/310M, 850nm Multimode Laser, -12 dBm, 2 KM, Stand-alone & Rack-mountable, wall-mount power supply included. (May require -RM6 & -BLANK) (Includes wall-mount power supply) (Specify ST, LC or FC Connectors)
HD-1500-FRX-2-ST	1.5 Gbps Multi-rate Serial Digital Video Fiber Optic Receiver, 5 - 1485 Mb/s, DVB/ASI, SMPTE 292M/259M/310M, Re-clocker, 850nm Multimode, -20 dBm sensitivity with ST connector, Stand-alone & Rack-mountable, wall-mount power supply included. (May require -RM6 & -BLANK) (Includes wall-mount power supply) (Specify ST, LC or FC Connectors)

Rack-mount Kits and Accessories (SIN 58-6)

-RM6	6 unit rack-mounting kit, mount 6 DTV-100/1500 in 1 rack unit
-BLANK	Blank panel for rack-mounting kit

APPLICATION DIAGRAM HD-1500 SDI & HD-SDI Fiber Optic Transport System

