

Data Sheet



3G/HD-SDI Video + Data + Audio Fiber Optic Link

HDFU

FEATURES

- 1-Channel uncompressed 3G/HD-SDI video over fiber
- Supports SMPTE 424M, 292M, 259M and others
- Error Free SDI pathological pattern operation
- More than 20km transmission distance
- Supports RS232, 422, 485 serial data communication
- Including equalizer and cable driver
- Operation status indication LED
- 75ohm BNC and ST fiber optical connector
- Stand alone or rack-mount package
- RoHS compliant



APPLICATIONS

- HD or 3G SDI Video transmission
- SMPTE297-2006 compatible optical to electrical or electrical to optical interface
- Broadcasting, surveillance networks and CCTV security system

Video

Parameter	Specification
Signal Format	SMPTE-424M, SMPTE-292M, SMPTE-259M
Signal Level	800 mV Vp-p \pm 50 mV
Data rate	Up to 2.97Gbps
Jitter*	< 1.0 UI - Timing Jitter < 0.2 UI - Alignment Jitter
Electrical Connector	BNC (75 Ω)

* Total jitter at the end of receiver output maximum value

Data

Parameter	Specification	
Data rate	DC to 115.2kbps	
Data Interface	Standard	RS422, RS485
	Option	RS232, RS422, RS485
Connector	Standard Terminal Block	

AUDIO

Parameter	Specification
Bandwidth	20Hz to 20kHz
Signal to noise ratio	> 80dB
Connector	Standard Terminal Block

Optical

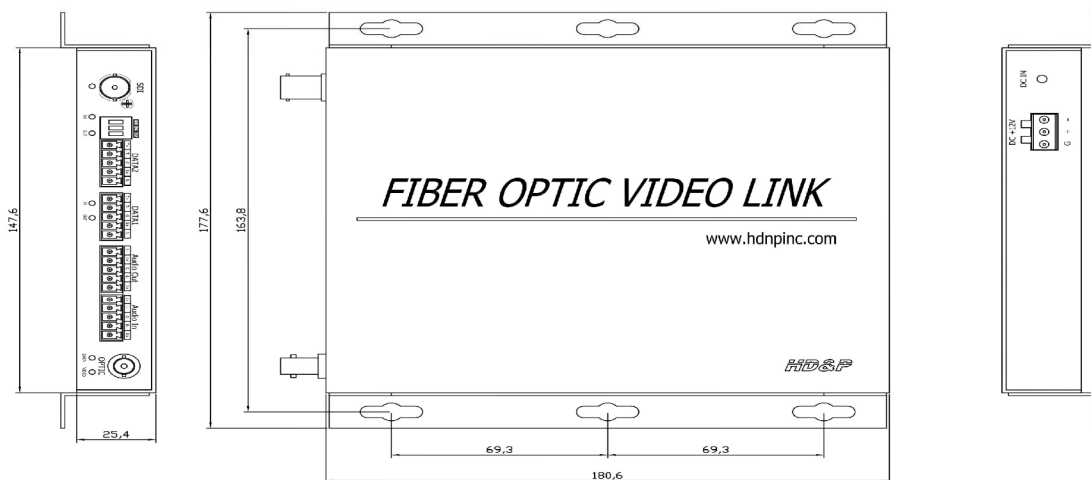
Parameter	Specification	
Wavelength	1310nm	
Transmitter	Output power	-7 ~ -3dBm
	Extinction Ratio	7dB
Receiver	Sensitivity	-22dBm
	Maximum Overload	0dBm
Distance (Typ.)	20km*	
Fiber Type	Single mode	
Optical Connector	ST Connector	
Number of Fibers	1	

* The maximum distance coverage may be greater than these typical numbers, depending on fiber type, fiber bandwidth, connector, splicing losses, chromatic dispersion, environmental factors, etc.

Electrical and Mechanical

Parameter	Specification
Power Supply	DC12V, 1.5A Adaptors
Operating Temperature	-20 to +75°C
Humidity	0 to 95% RH, non-condensing
Dimensions (W x D x H)	147.5 x 180.7 x 25.4 (mm)

DRAWING (mm)



REVISION HISTORY

Date	Revision	Description
March. 2013	000	Initial release
December 2015	001	Model name change (HD4U to HDFU)