

Data Sheet : F-8SDI-3G-LOOP-TX/RX



8 Ch SD/HD 3G-SDI Over Single Fiber with LOOP OUTPUTS

The F-8SDI-3G-LOOP-TX/RX is an 8-channel 3G SDI fiber optic multiplexer with SDI loop-outs on the optical transmitter (TX) and dual outputs on the optical receiver

There are devices allowed to instantly move uncompressed SDI signals up to 3G 1080p/60Hz from place to place over only one single-mode fiber up to 20 km. With an additional very desirable option, the transmitter with 8 SDI inputs has loop output, and the optical receiver has dual outputs allowing to utilize one output and also has the ability to monitor on the second mirrored output.

It supports the following optical transport signals:

- 8 channels of HD/SD 3G-SDI signals over one single-mode fiber.
- 4 channels of 4K/UHD signals at 30 fps over one single-mode fiber.
- 2 channels of 4K/UHD signals at 60 fps over one single-mode fiber.

Features:

- CWDM optical multiplexing technology, Each SDI signal has its own laser and its being convert to the different optical wavelength
- Compliant with SMPTE ST 425-3, ST 425-5, 259M-2006, 292-2006, 424M-2006
- Transmission of SMPTE 305M-2005, 310M-2004, 344M-2000,
- SDI with or without embedded audio and data
- Signal is equalized and re-clocked prior to fiber optic transmission
- Receiver features re-clocked SDI outputs
- Pathological patterns over entire link budget
- Single Mode fiber up to 20km
- Supports 3G/HD/SD-SDI inputs with or without embedded audio and data
- Supports 4K/UHD resolutions up to 60 fps
- 21 dB Optical Link Budget @ 2.97 Gbps for High Power, Longer Distance version
- Standard & High Powered, long distance transmitter versions available
- 1RU 19" rackmount version

Model Selection:

F-8SDI-3G-LOOP-TX/RX is an 8-channel 3G SDI fiber optic multiplexer with loop-outs on the optical transmitter (TX) and dual outputs on the optical receiver.

Specifications:

Support	2 CH 4K/UHD signals at 60 fps 4 CH 4K/UHD signals at 30 fps 8 Ch SD/HD/3G SDI up to 1080p/60
Supported Standards	SMPTE ST 425-3, ST 425-5, 259M, 292, 297-2006, 424M-2006, 305M, 310M, 344M, DVB-ASI
Optical Characteristics Wavelength	1310 nm CWDM Band 1271nm, 1291nm, 1311nm, 1331nm 1351nm, 1371nm, 1411nm, 1431nm 1550 nm CWDM Band 1471nm, 1491nm, 1511nm, 1531nm 1551nm, 1571nm, 1591nm, 1611nm <i>*Other Wavelengths Available By Request</i> <i>*DWDM up to 160 Ch/Fiber By Request</i>
Fiber Cable	Single Mode
Optical Data Rate	Up to 3 Gbps
Optical Source	DFB Laser Module - CWDM
Optical Budget	15 dB - Standard 25 dB - Long Range
Fiber Connectors	ST/PC

Support	2 CH 4K/UHD signals at 60 fps 4 CH 4K/UHD signals at 30 fps 8 Ch SD/HD/3G SDI up to 1080p/60
<i>Electrical Characteristics</i>	
Input	Any Serial Digital Signal up to 3.0 Gbps
Input Level	1.00 V Peak to Peak
I/O Impedance	75 Ohm
Electrical Connectors	BNC - 75 Ohm
<i>Mechanical/Environmental</i>	
Dimensions (L x W x H)	480mm x 225mm x 88mm / 19 inches x 8.86 inches x 3.46 inches
Weight	8-15lb - Depending On Configuration
Temperature Range	Operating: -10C to + 55C Storage: -30C to + 70C
Humidity Range	0 to 95%, non-condensing
Power	100 - 240 VAC Auto Switching PSU 10 - 30 Watt Depending On Configuration
<i>*All Specifications Subject to Change Without Notice</i>	

DRAWING:

