ECT3003 3G-SDI, HD-SDI, HDTV & ASI SERIAL DATA SIGNAL OPTICAL LINK

SD Signal
1→
2→
1↔

ECT3003 system provides a high performance link for reclocking or non-reclocking transmitting an unidirectional SDI, HD-SDI, HDTV or ASI serial data signals over a fiber optic cable.
The ECT3003 system is available in three configurations:

1. Unidirectional 1 channel link
2. Unidirectional 2 channel link
3. Bi-directional 1 channel link

The ECT3003 system is the cost-effective solution for transmission of HD-SDI 3 Gbps signals over a fiber optic cable.

FEATURES

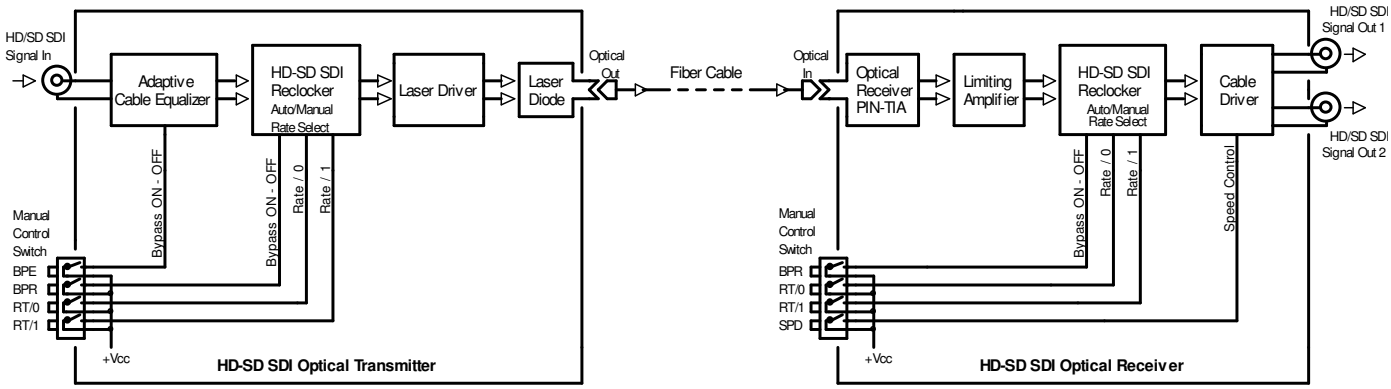
- SDI, HD-SDI, HDTV & ASI Signal Compatible
- Supports 270 Mbps, 1.483 Gbps, 1.485 Gbps, 2.967 Gbps and 2.97 Gbps Serial Data Rate Operation
- Reclocked Mode with Automatic or Manual Rate Selection
- Non-reclocked Mode Operation (optional)
- Automatic Cable Equalization
- Multimode and Singlemode Versions
- Link and Rate Status Indicators

Fiber Type	Multimode*	Singlemode
Optical Core Diameter	**50µ or 62.5µ**	**8/10µ**
Operating Wavelength	850 /and 1310 nm	1310 or/and 1550 nm
Optical Power Source	Laser (VCSEL)	Laser
Optical Power Output	-3 dBm	-3 dBm
Receiver Sensitivity	-17 dBm	-20 dBm
Receiver Sensitivity**	-16 dBm	-19 dBm
Optical Connectors	ST, SC	ST, SC, FC

** up to 1.5 Gb/sec data rate only;*
*** for transceiver (bi-directional link) option.*

Standards Support	SMPTE 422M 1080p 3 Gbps SMPTE 292M 1.485 Gbps SMPTE 259M 270Mbps SMPTE 344 540 Mbps DVB-ASI 270 Mbps
Format	Reclocked with Automatic or Manual Rate Selection & Non-Reclocked
Cable Equalization (Automatic)	120 m @ 3 Gbps 160m @ 1.485 Gbps 400m @ 270 Mbps
Connector	BNC 75 Ohm
Power Requirements:	
Standard (TX or RX)	5 VDC @ 0.25 A regulated
Standard (TRX)	5 VDC @ 0.5 A regulated
Optional (TX or RX)	11 - 15 VDC @ 0.15 A
Optional (TRX)	11 - 15 VDC @ 0.3 A
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Dimensions (w/o an optical connector)	156mm (6.15") L, 84mm (3.3") W, 62mm (2.42") H

Elcommtech Corp. 2620 Ocean Parkway, Suite 4H, Brooklyn, NY 11235
Tel: (718) 743-2869 • Fax: (718)648-3642 • E-mail: sales@elcommtech.com
http://www.elcommtech.com



HD-SD SDI Optical Link
Block Diagram

ORDERING INFORMATION

3003**E**-SDT-M(**P**)1**Z** – Single channel transmitter module

3003**E**-SDR-M(**P**)1**Z** – Single channel receiver module

3003**E**-SDT2-M(**P**)**YZ** – Dual channel transmitter module

3003**E**-SDR2-M(**P**)**YZ** – Dual channel receiver module

3003**E**-SDX-M(**P**)**YZ** – Single channel transceiver module

E = **M** for multimode 850 nm
= **S** for single mode receiver or 1310 nm transmitter
= **SP** for single mode high power (=/> 0 dBm) 1310 nm transmitter
= **SPD** for single mode high power (=/> 0 dBm) 1310 nm / DFB transmitter
= **S(15)** for single mode 1550 nm transmitter
= **S(15)P** for single mode high power (=/> 0 dBm) 1550 nm transmitter
= **S(W)** for single mode CWDM / DFB transmitter
= **S(W)P** for high power (=/> 0 dBm) CWDM / DFB transmitter

CWDM wavelength **(W)**: **14.7**(1470 nm), **14.9**(1490 nm), **15.1**(1510 nm), **15.3**(1530 nm), **15.5**(1550 nm), **15.7**(1570nm), **15.9**(1590 nm), **16.1**(1610 nm).

P = **12** for 11 - 15 V power only
Y = **2** or **1** for the number(s) of fiber (for dual channel units and transceivers only)
Z = **ST**, **SC**, **FC** for optical connectors

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