

ECT3005

FOUR CHANNEL 3G-SDI, HD-SDI, HDTV, ASI SERIAL DATA SIGNALS OPTICAL LINK



The ECT3005 system provides a high performance link for reclocking and non-reclocking simultaneous transmitting of four 3G-SDI, HD-SDI, HDTV, ASI serial data signals over a fiber optic cable.

This system is available in several configurations which provide the following:

1. Unidirectional transmission of four SD signals via 1, 2, or 4 fibers.
2. Transmission of three SD signals in one direction and one SD signal – in opposite direction via 1, 2, or 4 fibers.
3. Bi-directional transmission of two SD signals via 1, 2, or 4 fibers.

The ECT3005 system is available as a rack card which is compatible with USR series chassis and as a standalone module.

It is the cost-effective solution for transmission of 3G-SDI signals over a fiber optic cable.

FEATURES

- ❑ SDI, HD-SDI, HDTV & ASI Signals 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
- ❑ One, Two, or Four Fibers Configurations
- ❑ Unidirectional or Bi-directional Transmission
- ❑ Link and Rate Status Indicators

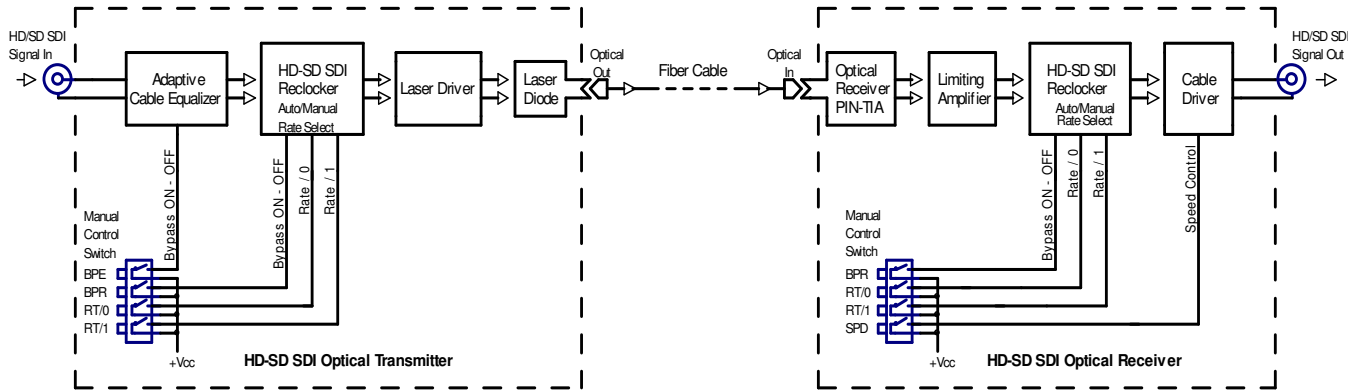
Fiber Type	Single mode
Optical Core Diameter	8/10µ
Operating Wavelength:	
4 Fiber Configuration	1310 or 1550 nm
2 Fiber Configuration	WDM: 1310 & 1550 nm
1 Fiber Configuration	CWDM: 1470 - 1610 nm
Optical Power Source	Laser
Optical Power Output	-3 dBm/per wavelength*
Receiver Sensitivity	-20 dBm
Optical Connectors	ST, SC, FC

* higher power laser sources are available per special request

Standards Support	SMPTE 422M 1080p 3 Gbps SMPTE 292M 1.485 Gbps SMPTE 259M 270Mbps SMPTE 344 540 Mbps DVB-ASI 270 Mbps
Operating Mode	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	11 - 15 VDC @ 0.75 A
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Dimensions (without an optical connector)	11.6"(295 mm) x 5.2"(132 mm) x 1.05"(27 mm)



ECT3000 SERIES



HD/SD SDI Optical Link / 1 Channel

Block Diagram

ORDERING INFORMATION

3005-T4-X4Z – SD/TX - 4 ch./1310 or 1550 nm, 4 fiber module/card

3005-R4-X4Z – SD/RX - 4 ch., 4 fiber module/card

3005-T4-X2Z – SD/TX - ch.1/1310 nm, ch.2/1550 nm, ch.3/1310 nm, ch.4/1550 nm, 2 fiber module/card

3005-R4-X2Z – SD/RX - ch.1/1310 nm, ch.2/1550 nm, ch.3/1310 nm, ch.4/1550 nm, 2 fiber module/card

3005-T4-X1Z – SD/TX - ch.1/1510 nm, ch.2/1530 nm, ch.3/1550 nm, ch.4/1570 nm, 1 fiber module/card

3005-R4-X1Z – SD/RX - ch.1/1510 nm, ch.2/1530 nm, ch.3/1550 nm, ch.4/1570 nm, 1 fiber module/card

3005-T3/R-X4Z – SD/TX - ch.1, 2, 3/1310 or 1550 nm & SD/RX - ch.4, 4 fiber module/card

3005-R3/T-X4Z – SD/RX – ch.1, 2, 3 & SD/TX – ch.4/1310 or 1550 nm, 4 fiber module/card

3005-T3/R-X2Z – SD/TX - ch.1/1310 nm, ch.2/1550 nm, ch.3/1310 nm & SD/RX - 1 ch./1550 nm, 2 fiber module/card

3005-R3/T-X2Z – SD/RX - ch.1/1310 nm, ch.2/1550 nm, ch.3/1310 nm & SD/TX - 1 ch./1550 nm, 2 fiber module/card

3005-T3/R-X1Z – SD/TX - ch.1/1510 nm, ch.2/1530 nm, ch.3/1550 nm & SD/RX - 1 ch./1570 nm, 1 fiber module/card

3005-R3/T-X1Z – SD/RX - ch.1/1510 nm, ch.2/1530 nm, ch.3/1550 nm & SD/TX - 1 ch./1570 nm, 1 fiber module/card

3005-TR/2-X2Z – SD/TX - ch.1/1310 nm, ch.2/1550 nm & SD/RX - ch.3/1310 nm, ch.4/1550 nm, 2 fiber module/card

3005-RT/2-X2Z – SD/RX - ch.1/1310 nm, ch.2/1550 nm & SD/TX - ch.3/1310 nm, ch.4/1550 nm, 2 fiber module/card

3005-TR/2-X1Z – SD/TX - ch.1/1510 nm, ch.2/1530 nm & SD/RX - ch.3/1550 nm, ch.4/1570 nm, 1 fiber module/card

3005-RT/2-X1Z – SD/RX - ch.1/1510 nm, ch.2/1530 nm & SD/TX - ch.3/1550 nm, ch.4/1570 nm, 1 fiber module/card

X = **M** for module, **C** for rack card

Z = **ST**, **SC**, **FC** for optical connectors

SD/TX - Serial data transmitter, SD/RX - Serial data receiver



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