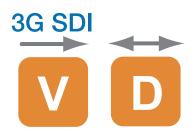


RC-SDV1D13GTR Series

1-CHANNEL 3G SDI VIDEO WITH RETURN DATA TRANSCEIVER





OVERVIEW

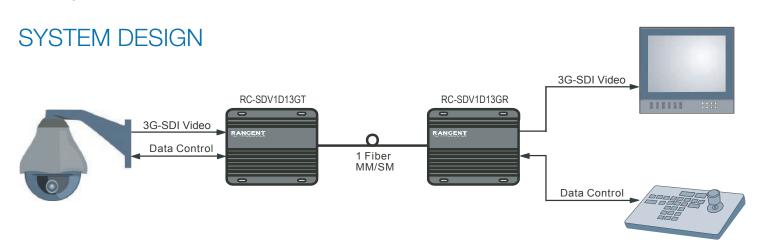
RC-SDV1D13GTR Series 3G SDI transmitter and receiver support optical transmission of 1-channel uncompressed and realtime SDI/HD-SDI/3G-SDI video signal at data rate up to 2.97Gbps and reverse data (RS485) over one core singlemode or multimode fiber. Fully compliant with SMPTE 424M, 292M, 259M and ITU digital video standards, the RC-SDV1D13GTR ensures the highest performance for most demanding digtal broadcast applications. The hot-pluggable and adjustment-free design ensures the convenience of the installation and operation. The modules are available in either standalone or rack mount versions.

FEATURES

- Reatime transmission of Multi-Rate SDI / HD-SDI / 3G-SDI (19 Mbps to 2.97Gbps (3G)) ove one core fiber
- Non-compressed SDI / HD-SDI / 3G-SDI signal transmission
- Simultaneous Transmission of 3G-SDI Video and Data
- Support data rate up to 2.97Gbps
- Support resolution 720p50/60, 1080i50/60, 1080p25/30
- Support all SMPTE 259M standard in 270Mbps 360Mbps
- Support SMPTE424M, SMPTE292M, SMPTE259M and ITU-R BT.601, ITU-R BT.1120 standards
- LED indicators for monitoring of system operating status
- Redundant output for preview on local monitor
- Standalone or Rack Mount Version

APPLICATIONS

- Digital broadcast application such as studio signal routing and temporary OB or studio links
- Remote broadcast camera links
- Campus digital video distribution
- Very high performance surveillance networks



RC-SDV1D13GTR Series

1-Channel 3G-SDI Video with Return Data Transceiver

SPECIFICATIONS

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Signal Type SDI, HD-SDI and 3G-SDI
Video Resolution 8 Bit/10Bit Auto
Data Rate 270Mbps~2.97Gbps
TV Signal Standard SMPTE424M, SMPTE292M,
SMPTE259M, DVB-ASI,
Other Telecom Signals,
ITU-R BT.601,
ITU-R BT.1120

Video Input

Video InputBNC (75 ohms)Video Intput Channels2 (1 for TX / 1 for Local Preview)Data Rate19Mbps~2.97GbpsNominal Level0.8 Vp-pMin/Max level0.5 V to 1.0 Vp-pReturn loss≥15 dB @ 5 MHz to 1.5 GHz≥10 dB @ 1.5 GHz to 3.0 GHzInput cable equalizationUp to -30 dB of cable loss

Video Output

Video Output BNC (75 ohms)

Video Output Channels 1

Re-clock 270Mbps/1.485Gbps/2.97Gbps

Nominal Level 0.8 Vp-p

Min/Max level 0.5 V to 1.0 Vp-p

Return loss <-25 dB @ 100 MHz

Data

Data Protocol RS485

Data Rate 0~300kps

Data Channels 1 (Return)

Error Rate 10⁻⁹

Connector

Optical LC (SFP)
Video BNC

Data Terminal Screws

Optical

Wavelength 1310nm
Optical Emitter Laser Diode
Optical Fiber 9/125u single mode
Number of Fibers 1
Return Loss >15dB
Shake <0.2UI

General

 Power Supply
 DC5V 2A

 Size
 152 ×130 ×28.8mm

 Construction:
 Aluminum

 Finish:
 Paint

 MTBF:
 > 100,000 hours

 Operating Temp:
 -35° C to +65° C

 Storage Temp:
 -45° C to +85° C

ORDERING INFORMATION

Part Number	Description	Fiber	Optical PWR Budget	Max Distance
RC-SDV1D13GTS	1-CH 3G-SDI with 1-CH Return Data TX Singlemode	SM	20dB	30KM
RC-SDV1D13GRS	1-CH 3G-SDI with 1-CH Return Data RX Singlemode	SM	20dB	30KM
RC-SDV1D13GTM	1-CH 3G-SDI with 1-CH Return Data TX Multimode	MM	6dB	500M
RC-SDV1D13GRM	1-CH 3G-SDI with 1-CH Return Data RX Multimode	MM	6dB	500M

^{*}Optical transmission distance is limited to optical loss of the fiber and any additional lossintroduced by connectors, splices and patch panels.

