

SDI Video, Audio and Serial Data Transmission

1 →

Video

The OTS-1SD2DA1D provides for the digital transmission of 1 Channel of uncompressed SDI Video, 2 Channels of AES/EBU Audio and 1 Channel of duplex Serial Data, at absolute broadcast quality.

2 →

Audio

System Design

All units come in an insert card version. The cards can be inserted into our 16-slot, 19" rack-mountable card cage (CC-16-100) or one of our smaller Optiva™ Desktop Card Racks (DTCR Series).

← **1** →

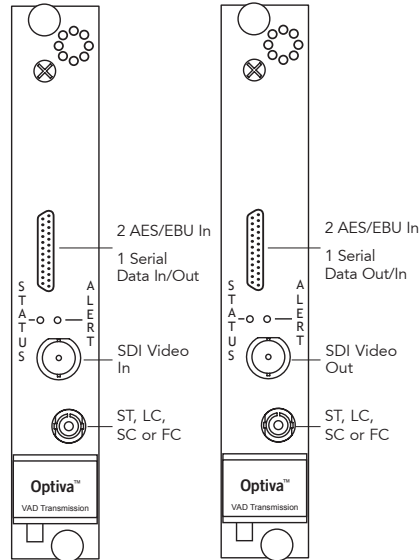
Data

The Desktop Card Racks can handle one, two or four insert cards, creating compact, mountable, stand alone systems. The use of separate DTCR enclosures allows for future flexibility and expansion as all cards are hot-swappable and can be used in any enclosure. Each one of our card housing units operate with an appropriate power supply. See "Accessories" for power supply specifications.

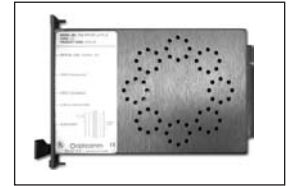
Optiva™ Upgrade Path

This system can be purchased without an optical port as an add-on to an existing Optiva™ system daisy-chain. (See "Non-Optical Version" below).

The Optiva™ bandwidth requirement of this system is 346 Mbps.



OTS-1SDT2DAT1DTR OTS-1SDR2DAR1DTR



Each insert card comes with a label identifying the specific protocols handled, connector pin-out and other vital information.

For optimal bandwidth allocation, each insert card can daisy-chain with an additional card in the same chassis. See "Optiva™ Upgrade Path".

Features

- Uncompressed SDI Video over one fiber
- TDM - Single Wavelength
- True DC restoration
- Flat frequency response
- Complies with SMPTE 259 for uncompressed SDI
- Compatible with MDM-7000 Series for WDM and CWDM multiplexing
- No EMI or RFI and no ground loops
- Stand alone or rack-mount
- Ideal for Broadcast/Studio and Professional AV applications

Versions Available*

Wavelength (nm) & Fiber	Transmit/Receive**	Receive/Transmit**	Optical Connector	Optical Budget (dB)	Range*** (km)	Form Factor
1310/1550 Multimode	OTS-1SDT2DAT1DTR-A2/A3M-XX-IC	OTS-1SDR2DAR1DTR-A3M/A2-XX-IC	ST, FC, LC or SC	10	3	IC (1-slot)
1310/1550 Singlemode	OTS-1SDT2DAT1DTR-A2/A3-XX-IC	OTS-1SDR2DAR1DTR-A3/A2-XX-IC	ST, FC, LC or SC	14	20	IC (1-slot)
1310/1550 SM (D)	OTS-1SDT2DAT1DTR-A2/A3D-XX-IC	OTS-1SDR2DAR1DTR-A3D/A2-XX-IC	ST, FC, LC or SC	21	40	IC (1-slot)
1270-1610 SM (CWDM)	OTS-1SDT2DAT1DTR-L4/L4-XX-IC	OTS-1SDR2DAR1DTR-L4/L4-XX-IC	ST, FC, LC or SC	Varies	20-70	IC (1-slot)
Non-Optical Version	OTS-1SDT2DAT1DTR-NOC-IC	OTS-1SDR2DAR1DTR-NOC-IC	N/A	N/A	N/A	IC (1-slot)

Serial Data Codes - "D" indicates RS-232. For other Serial Data preferences, please use: "DJ" = RS-422; "DK" = RS-485 (2W); and "DW" = RS-485 (4W).

* Contact Opticomm for other versions available.

** XX indicates the type of optical connector. Each of ST, FC, LC or SC are available.

*** Chromatic dispersion and additional losses should be taken into account.

NOTE: The systems in this category offer transmission of certain signals in set configurations. If your application involves multi-signal transmission and/or would benefit from system upgradeability, please visit the Optiva™ Platform section on page 14. To configure an Optiva™ system to your precise needs, please register for the 'Product Configurator' at www.opticomm.com

SDI & HD-SDI

Video

Standard	SMPTE 259M
Pathological test code	RP-178
Bit rate	270 Mbps (Nominal); 143/177/360 Mbps (Optional)
Bit error rate	10 ⁻¹⁴
Connector	BNC (IEC 60169-8)

Audio

Digital Format	AES/EBU AES3-1992 (ANSI S4,40) SMPTE 276M
Connector	Micro DB25

Data

Connector	Micro DB25
RS-232, RS-422	Data Rate: DC to 1 Mbps
RS-485 (2 Wire)	Data Rate: DC to 1 Mbps
RS-485 (4 Wire)	Data Rate: DC to 1 Mbps

General

Dimensions & Weight	Insert Card (IC): 6.3" L x 0.8" W x 4.0" H	11 oz
Operating temperature	-20° C to +55° C	
Storage temperature	-40° C to +85° C	
Humidity	0 to 95% non-condensing	
Operating voltage	9-12 V _{DC}	
Consumption	1A Max per Insert Card	
System Latency	Less than 1ms	

Local Monitoring LED Status Indication

Remote Monitoring Compatible with OptivaView™
SNMP Management Suite

- Optiva™ Configurable Communication Platform
- Network Management
- SDI & HD-SDI**
- Composite Video, Audio & Data
- RGB/VGA/DVI
- Audio/FSK/Intercom
- Data (Ethernet/Serial/USB)
- CATV/RF & L-Band
- Optical Switching, Routing & Redundancy
- Passive Multiplexing Solutions
- Enclosures, Racks & Frames
- Power Supplies & Accessories

10 YEAR WARRANTY
ISO 9001:2000 CERTIFIED



FCC PART 15 COMPLIANT

Emissions: FCC Part 15, ICES-003, AS/NZS, 3548, EN55022
Immunity: ENVS0204, EN61000-4-2,3,4,5,6,11
Safety: UL1950, CAN/CSA 22.2, NO.950-95

MADE IN THE USA

Sample Configuration

