

### 1 →

Video

#### SDI Video and Digital Audio Transmission

The OTS-1SD2DA provides for the digital transmission of 1 Channel of uncompressed SDI Video and 2 Channels of AES/EBU Audio, 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 (OT-CC-16-100) or one of our smaller Optiva™ Desktop Card Racks (OT-DTCR Series).

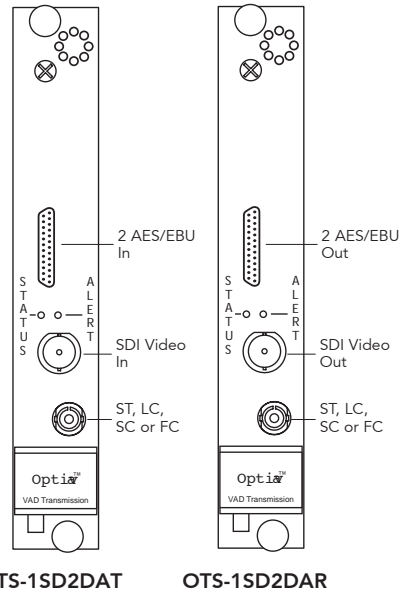
Data

The Optiva™ Desktop Card Racks can handle one, two or four insert cards, creating compact, mountable, stand alone systems. The use of separate OT-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 361 Mbps.**



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 and 2 AES/EBU channels over one fiber
- TDM - Single Wavelength
- Complies with SMPTE standards for Video and Audio transmission
- 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**	Optical Connector	Optical Budget (dB)	Range*** (km)	Form Factor
1310 Multimode	OTS-1SDT2DAT-A1-XX-IC	OTS-1SDR2DAR-A1-XX-IC	ST, FC, LC or SC	10	3	IC (1-slot)
1310 Singlemode	OTS-1SDT2DAT-A2-XX-IC	OTS-1SDR2DAR-A2-XX-IC	ST, FC, LC or SC	7	10	IC (1-slot)
1310 Singlemode (D)	OTS-1SDT2DAT-A2D-XX-IC	OTS-1SDR2DAR-A2D-XX-IC	ST, FC, LC or SC	12	20	IC (1-slot)
1550 Singlemode	OTS-1SDT2DAT-A3-XX-IC	OTS-1SDR2DAR-A3-XX-IC	ST, FC, LC or SC	17	40	IC (1-slot)
1550 Singlemode (D)	OTS-1SDT2DAT-A3D-XX-IC	OTS-1SDR2DAR-A3D-XX-IC	ST, FC, LC or SC	25	60	IC (1-slot)
1270-1610 SM (CWDM)	OTS-1SDT2DAT-L4-XX-IC	OTS-1SDR2DAR-L4-XX-IC	ST, FC, LC or SC	Varies	20-70	IC (1-slot)
<b>Non-Optical Version</b>	OTS-1SDT2DAT-NOC-IC	OTS-1SDR2DAR-NOC-IC	N/A	N/A	N/A	IC (1-slot)

\* 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.

## Video

Standard	SMPTE 259
Pathological Test Code	RP-178
Bit Rate	270 Mbps
Bit error rate	10 <sup>-14</sup>
Connector	BNC (IEC 60169-8)

## Audio

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

## 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 <sub>DC</sub>	
Consumption	1 Amp 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**

MADE IN THE USA

## Sample Configuration

