opticomm
travel by light™

Serial Data Transmission

The OTS-64DTR provides for the digital transmission of 64 Channels of Duplex Serial Data.
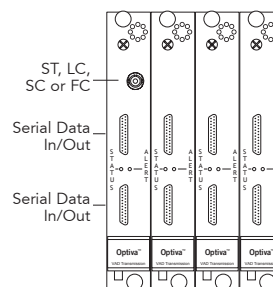
System Design

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).

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.
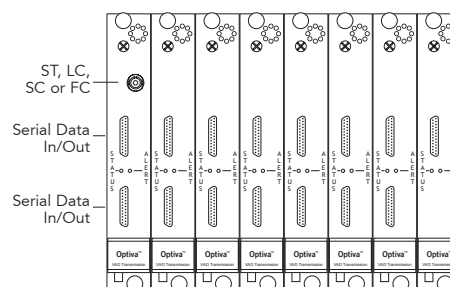
Optiva™ Upgrade Path

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 448 Mbps.

Video

Audio

64

Data

ST, LC, SC or FC

Serial Data In/Out

Serial Data In/Out

OTS-64DTR
(RS-232)

ST, LC, SC or FC

Serial Data In/Out

Serial Data In/Out

OTS-64DTR
(RS-422/485)

Features

- Uncompressed Serial Data over one fiber
- TDM - Single fiber, dual wavelength
- True DC restoration
- Flat frequency response
- Compatible with MDM-7000 Series for WDM and CWDM multiplexing
- No EMI or RFI and no ground loops
- Stand alone or rack-mount

Versions Available*

Wavelength (nm) & Fiber	Transmit/Receive**	Receive/Transmit**	Optical Connector	Optical Budget (dB)	Range*** (km)	Form Factor
1310/1550 Multimode	OTS-64DTR-A2/A3M-XX-IC	OTS-64DTR-A3M/A2-XX-IC	ST, FC, LC or SC	10	3	IC (4 or 8 slots)
1310/1550 Singlemode	OTS-64DTR-A2/A3-XX-IC	OTS-64DTR-A3/A2-XX-IC	ST, FC, LC or SC	14	20	IC (4 or 8 slots)
1310/1550 SM (D)	OTS-64DTR-A2/A3D-XX-IC	OTS-64DTR-A3D/A2-XX-IC	ST, FC, LC or SC	21	40	IC (4 or 8 slots)
1270-1610 SM (CWDM)	OTS-64DTR-L4/L4-XX-IC	OTS-64DTR-L4/L4-XX-IC	ST, FC, LC or SC	Varies	20-70	IC (4 or 8 slots)
Non-Optical Version	OTS-64DTR-NOC-IC	OTS-64DTR-NOC-IC	N/A	N/A	N/A	IC (4 or 8 slots)

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.*

Data (Ethernet/Serial/USB)

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

Contact Closure
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

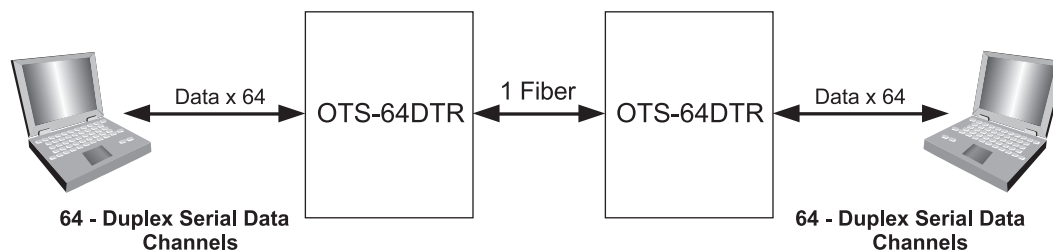Audio/FSK/Intercom

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

UL® C E

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

Data x 64 — OTS-64DTR — 1 Fiber — OTS-64DTR — Data x 64

64 - Duplex Serial Data Channels   **64 - Duplex Serial Data Channels**