opticomm
travel by light®

Ethernet Transmission

The OTS-1ETR provides auto-sensing digital transmission of 1 Channel of 10/100 Ethernet.

Video

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).
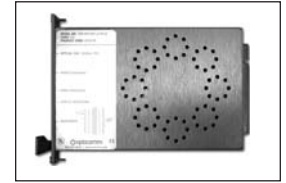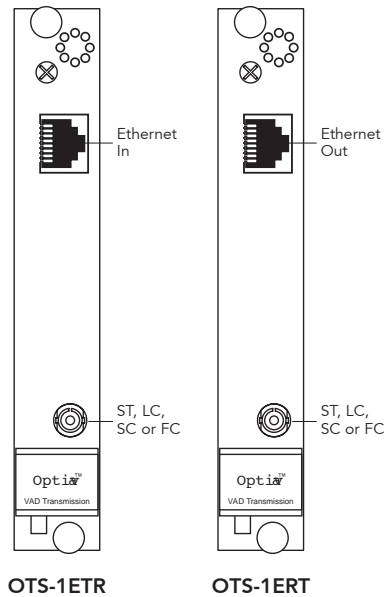
Audio

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.

Data

1
Ethernet

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 172 Mbps.

Ethernet In

Ethernet Out

ST, LC, SC or FC

ST, LC, SC or FC

Optiva™
VAD Transmission

Optiva™
VAD Transmission

OTS-1ETR   **OTS-1ERT**

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 10/100 Ethernet over one fiber
- TDM - Single fiber, dual wavelength
- 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-1ETR-A2/A3M-XX-IC	OTS-1ERT-A3M/A2-XX-IC	ST, FC, LC or SC	10	3	IC (1-slot)
1310/1550 Singlemode	OTS-1ETR-A2/A3-XX-IC	OTS-1ERT-A3/A2-XX-IC	ST, FC, LC or SC	12	20	IC (1-slot)
1310/1550 SM (D)	OTS-1ETR-A2/A3D-XX-IC	OTS-1ERT-A3D/A2-XX-IC	ST, FC, LC or SC	17	40	IC (1-slot)
1310/1550 SM (H)	OTS-1ETR-A2/A3H-XX-IC	OTS-1ERT-A3H/A2-XX-IC	ST, FC, LC or SC	25	60	IC (1-slot)
1270-1610 SM (CWDM)	OTS-1ETR-L4/L4-XX-IC	OTS-1ERT-L4/L4-XX-IC	ST, FC, LC or SC	Varies	20-70	IC (1-slot)
Non-Optical Version	OTS-1ETR-NOC-IC	OTS-1ERT-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.

Data

Standard	Ethernet IEEE 802.3 (Auto-Negotiation)
Data Rate	10/100 Mbps
Connector	RJ-45

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	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

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10 YEAR WARRANTY   **ISO 9001:2000 CERTIFIED**

CSA   CE

FCC PART 15 COMPLIANT

MADE IN THE USA

Sample Configuration

Ethernet — OTS-1ETR — 1 Fiber — OTS-1ERT — Ethernet