



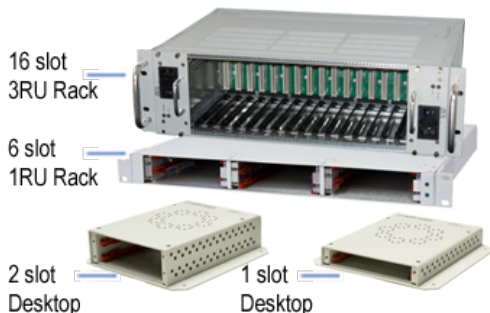
Features

- Simplex or duplex contact closure over fiber
- Multimode options (up to 2 km)
- Singlemode options (up to 70 km)
- TDM - Single Wavelength
- No EMI, RFI, or Ground Loops
- Micro DB-25 connector
- 3-Year Warranty

Applications

- Intelligent Transportation Systems
- Security & Surveillance
- Access Control
- Control Room

Enclosure Options



Simplex or Duplex Contact Closure

The Optiva OTP-4C provides for the transmission of 4 channels of simplex or duplex contact closure, over long or short distances, using a single fiber. EMCORE contact closure cards come in two types: "CC", which indicates latching operation (remembers the on/off position in the event of a loss of power) or "CF", which indicates non-latching operation.

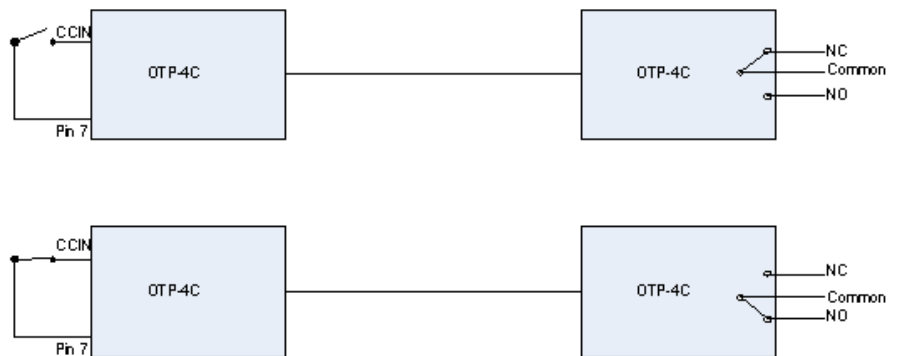
In addition, the OTP-4C is part of our innovative Optiva video, audio and data media transport system. Optiva was designed to maintain lossless fiber extension between input and output signals. New signals may be added without the need for additional fiber through our proprietary daisy-chain technology. The Optiva line of products also includes insert cards for up to 16 channels of multiplexing / demultiplexing, 16x16 matrix switching, optical add / drop, as well as remote system monitoring.

System Design

Optiva insert cards support both 19" rackmount and compact tabletop or wall-mountable enclosures. The 3RU 19" rackmount enclosures (Models: OT-CC-16 & OT-CC-16F) can support up to 16 insert cards as well as dual-redundant, hot-swappable power supplies utilizing two 100 watt or two 200 watt power supplies. Also available in the rackmount form factor is our 1RU enclosure (Model: OT-CC-6-1U) which can accommodate six insert cards and utilizes two 60 watt power supplies. For desktop or wall mounting applications there are one-slot (Model: OT-DTCR-1) and two-slot (Model: OT-DTCR-2) enclosures. Both use an external wall mount power supply.



Application Diagram



U.S. Patent #'s 7720385 & 8064773

DATASHEET **FIBER OPTICS**

Simplex Models & Optical Specifications

Simplex Transmitter	Simplex Receiver
OTP-4CCT-XX-YY	OTP-4CCR-XX-YY
OTP-4CFT-XX-YY	OTP-4CFR-XX-YY

Simplex Code	Fiber Type / Number	Wavelength (nm)	Optical Budget (db)	Distance (km)	Connector Options
A0	MM/1	850	7	0.5	LC,SC,FC,ST
A1	MM/1	1310	5	2	LC,SC,FC,ST
A2	SM/1	1310	7	10	LC,SC,FC,ST
A2D	SM/1	1310	12	20	LC,SC,FC,ST
A3	SM/1	1550	17	40	LC,SC,FC,ST
A3D	SM/1	1550	25	60	LC,SC,FC,ST
L4x1	SM/1	1270-1610 (CWDM)	25	20-70	LC,SC,FC,ST

Duplex Models & Optical Specifications

Duplex Transmitter	Duplex Receiver
OTP-4CCTR-XX/XX-YY	OTP-4CCRT-XX/XX-YY
OTP-4CFTR-XX/XX-YY	OTP-4CFRT-XX/XX-YY

Duplex Code	Fiber Type and #	Wavelength (nm)	Optical Budget (db)	Distance (km)	Connector Options
A0/A0	MM/2	850/850	5	0.5	Dual LC
A1/A1	MM/2	1310/1310	7	2	Dual LC
A2/A2	SM/2	1310/1310	5	10	Dual LC
A2D/A2D	SM/2	1310/1310	12	20	Dual LC
A3/A3	SM/2	1550/1550	17	40	Dual LC
A3D/A3D	SM/2	1550/1550	25	70	Dual LC
A1/A3M	MM/1	1310/1550	5	3	SC, FC or ST
A2/A3	SM/1	1310/1550	12	20	SC, FC or ST
A2/A3D	SM/1	1310/1550	17	40	SC, FC or ST
A2/A3H	SM/1	1310/1550	25	60	SC, FC or ST
L4x1/L4x1	SM/2	1270-1610 (CWDM)	25	20-70	Dual LC

- CC is latching, CF is non-latching
- NOC is non-optical card
- When ordering simplex, replace "XX" with one of the simplex optical codes
- When ordering duplex, replace "XXXX" with one of the duplex optical codes
- When ordering, replace "YY" in the model for the designated optical connector
- Chromatic dispersion as well as other losses should also be taken into account
- Stated distances are the maximum range, shorter distance may require attenuation
- Standard connector type is UPC

Contact Specifications

Specifications	Values
Input Impedance	7K Ohms pulled down
Input Control Signal Frequency	10 Hz max
Active Input	High
Input Range High	2.5V < Vinh < 24V
Input Range Low	0V < Vinl < 0.8V
Local Vinh Pin	Pin # 7 is +5 VDC, for use with a switch

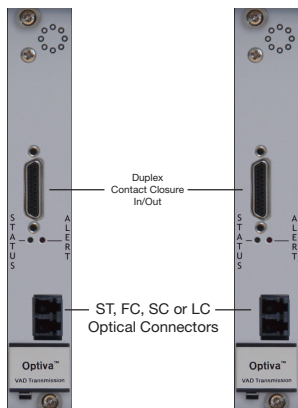
Contact Characteristics

Specifications	Values
Type:	3 pin: Normally Open, Normally Closed and Common
Short Circuit Protection	160 mA max (internal auto resetting fuse trips at 450 mA at 25C)
Input Voltage	48 VDC max

General

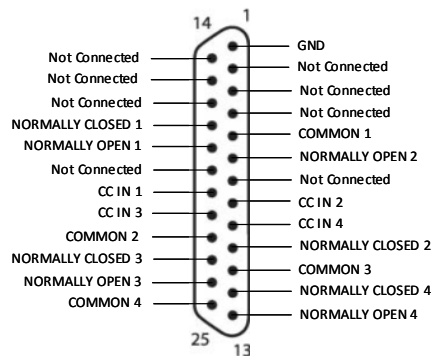
Specifications	Values
Dimensions (Insert Card)	6.69" L x 0.81" W x 5.06" H
Weight	11 oz.
Operating Temperature	-20°C to +55°C
Storage Temperature	-40°C to +85°C
Humidity	0 to 95% (Non-Condensing)
Operating Voltage	12 VDC
Power Consumption	6 Watts
Bit Error Rate	10 ⁻¹⁴
System Latency	< 1 ms
Warranty	3 year

Connection Diagram



OTP-4CCTR

OTP-4CCRT



Monitoring & Control

Specifications	Values
Local	Front panel LED status and alert indicators
Remote	OptivaView SNMP Management Suite*

- Requires OptivaView SNMP Controller Card (Model: OPV-CTRL)

Compliance

