

# OTP-4EA

Simplex or Duplex Extended Analog Audio



## DATASHEET FIBER OPTICS



### Extended Analog Audio Transmission

The Optiva OTP-4EA provides for the transmission of 4 channels of duplex analog audio, over long or short distances, using a single fiber.

In addition, the OTP-4EA 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.



### Features

- Duplex Analog Audio over Fiber
- Singlemode Options (up to 70 km)
- Multimode Options (up to 2 km)
- TDM - Single Wavelength
- No EMI, RFI, or Ground Loops
- 3-Year Warranty

### System Design

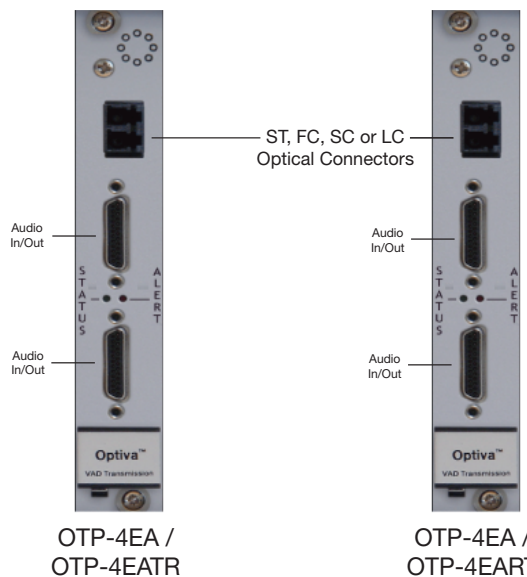
Optiva insert cards support both 19" rackmount and compact tabletop or wall-mountable enclosures. The 3RU 19" rackmount enclosures (Models: OT-CC-16 & OT-CC-16F) can support up to 16 insert cards as well as dual-redundant, hot-swappable power supplies utilizing two 100 watt or two 200 watt power supplies. 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.



### Applications

- High-Quality Video Security Systems
- Video Surveillance
- CCTV Applications

### Connection Diagram



U.S. Patent #'s 7720385 & 8064773

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### Simplex Models & Optical Specifications

Transmitter	Receiver
OTP-4EAT-XX-YY	OTP-4EAR-XX-YY
OTP-4EAT-L4x1-YY	OTP-4EAR-L4x1-YY
OTP-4EAT-NOC	OTP-4EAR-NOC

Optical Code "XX"	Fiber Type / Number	Wavelength (nm)	Min. Output Power (dBm)	Rx Sensitivity (dBm)	Optical Budget (db)	Distance (km)	Connector Options "YY"
A0	MM/1	850	-10	-17	7	0.5	LC, SC, ST, FC
A1	MM/1	1310	-5.5	-10.5	5	2	LC, SC, ST, FC
A2	SM/1	1310	-5.5	-12.5	7	10	LC, SC, ST, FC
A2D	SM/1	1310	-5.5	-17.5	12	20	LC, SC, ST, FC
A3	SM/1	1550	-3.5	-20.5	17	40	LC, SC, ST, FC
A3D	SM/1	1550	0	-25	25	60	LC, SC, ST, FC
L4x1	SM/1	1270 to 1610 (CWDM)	-2.5	-27.5	25	50 to 70	LC, SC, ST, FC

- When ordering replace "XX" or "XXX" with one of the Optical Codes
- When ordering replace "YY" with one of the Connector Options
- Contact us for this chart: When ordering CWDM, replace "x" in the Optical Code L4x1 with A (1270 nm) through R (1610 nm)
- NOC: non-optical card
- 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 connection type is UPC

### Duplex Models & Optical Specifications

Transmitter	Receiver
OTP-4EATR-XX/XX-YY	OTP-4EART-XX/XX-YY
OTP-4EATR-L4x1/L4x1-YY	OTP-4EART-L4x1/L4x1-YY
OTP-4EATR-NOC	OTP-4EART-NOC

Optical Code "XX/XX"	Fiber Type / Number	Wavelength (nm)	Min. Output Power (dBm)	Rx Sensitivity (dBm)	Optical Budget (db)	Distance (km)	Connector Options "YY"
A0/A0	MM/2	850	-10	-17	7	0.5	LC (Dual)
A1/A1	MM/2	1310	-5.5	-10.5	5	2	LC (Dual)
A2/A2	SM/2	1310	-5.5	-12.5	7	10	LC (Dual)
A2D/A2D	SM/2	1310	-5.5	-17.5	12	20	LC (Dual)
A3/A3	SM/2	1550	-3.5	-20.5	17	40	LC (Dual)
A3D/A3D	SM/2	1550	0	-25	25	60	LC (Dual)
L4x1/L4x1*	SM/2	1270 to 1610 (CWDM)	-2.5	-27.5	25	50 to 70	LC (Dual)
A1/A3M*	MM/1	1310/1550	-5.5	-10.5	5	3	SC, FC or ST
A2/A3*	SM/1	1310/1550	-5.5	-17.5	12	20	SC, FC or ST
A2/A3D*	SM/1	1310/1550	-3.5	-20.5	17	40	SC, FC or ST
A2/A3H*	SM/1	1310/1550	-2.5	-27.5	25	60	SC, FC or ST

- \*Use "XX/XX" as is for ordering transmitter models but reverse for ordering receiver models

### Audio

Specifications	Values
Level	18 dBm In/Out
Bandwidth	20 Hz to 20 KHz
Signal to Noise Ratio	> 80 dB
Total Harmonic Distortion	< 0.1%
Signal Coding	24-bit
Connector	Micro DB-25

### General

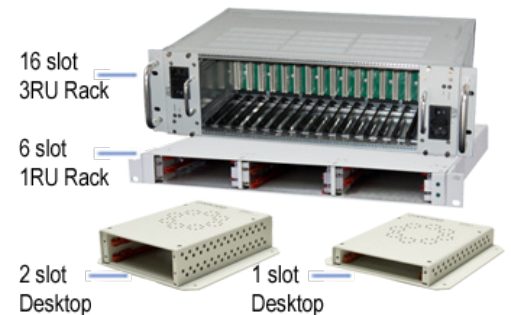
Specifications	Values
Dimensions (Insert Card)	6.69" L x 0.81" W x 5.06" H
Weight	11 oz.
Operating Temperature	-20°C to +55°C
Storage Temperature	-40°C to +85°C
Humidity	0 to 95% Non-Condensing
Operating Voltage	12 VDC
Power Consumption	6 Watts
BER	10 <sup>-14</sup>
System Latency	< 1 ms
Warranty	3 year

### Monitoring & Control

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

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

### Enclosure Options



### Compliance

