

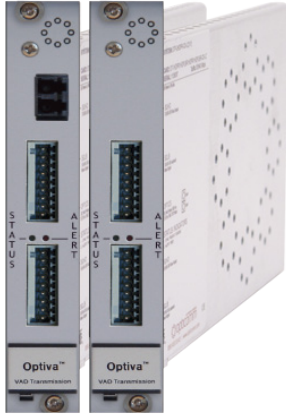
# OTP-8BA

Simplex or Duplex Analog Audio



DATASHEET

FIBER OPTICS



## Analog Audio Transmission over Fiber

The Optiva OTP-8BA provides for the transmission of 8 channels of simplex or duplex analog audio, over long or short distances, using a single fiber.

In addition, the OTP-8BA 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

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

## Applications

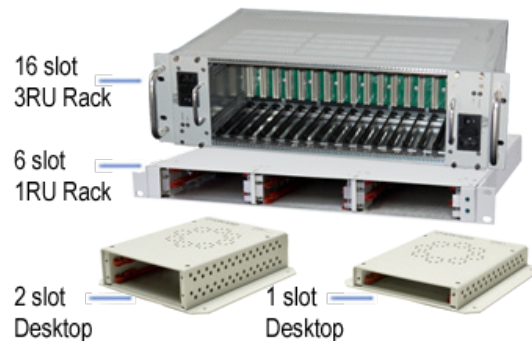
- Intelligent Transportation Systems
- Security & Surveillance
- Access Control
- Theater & Stadium Sound Systems

## 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.

**optiva** | PLATFORM

## Enclosure Options



U.S. Patent #'s 7720385 & 8064773

# OTP-8BA

Simplex or Duplex Analog Audio

## DATASHEET FIBER OPTICS

### Simplex Models & Optical Specifications

Simplex Transmitter		Simplex Receiver	
OTP-8BAT-XX-YY		OTP-8BAR-XX-YY	
OTP-8BAT-NOC		OTP-8BAR-NOC	

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

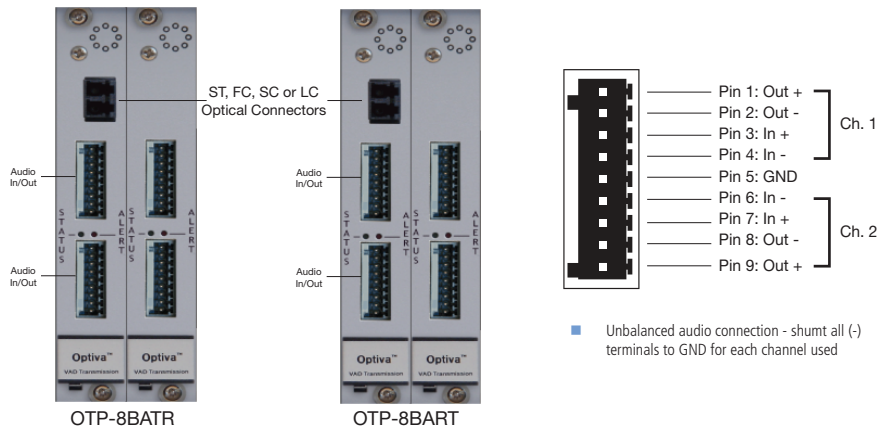
- When ordering simplex, replace "XX" with one of the simplex optical codes
- When ordering duplex, replace "XX/XX" with one of the duplex optical codes
- When ordering replace "YY" with the designated optical connector
- NOC: non-optical card
- Chromatic dispersion as well as other losses should also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

### Duplex Models & Optical Specifications

Duplex Transmitter		Duplex Receiver	
OTP-8BATR-XX/XX-YY		OTP-8BART-XX/XX-YY	
OTP-8BATR-NOC		OTP-8BART-NOC	

Duplex Code	Fiber Type / Number	Wavelength (nm)	Optical Budget (db)	Distance (km)	Connector Options
A0/A0	MM/2	850/850	5	0.5	LC (Dual)
A1/A1	MM/2	1310/1310	7	2	LC (Dual)
A2/A2	SM/2	1310/1310	5	10	LC (Dual)
A2D/A2D	SM/2	1310/1310	12	20	LC (Dual)
A3/A3	SM/2	1550/1550	17	40	LC (Dual)
A3D/A3D	SM/2	1550/1550	25	70	LC (Dual)
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	LC (Dual)

### Connection Diagram



### Audio

Specifications	Values
Level	18 dBu In/Out
Bandwidth	20 Hz to 20 KHz
Signal to Noise Ratio	> 80 dB
Total Harmonic Distortion	< 0.1%
Signal Coding	24-bit
Connector	Terminal Block
Impedance	
Input	Output
Balanced (600 Ω or Hi-Z)	Balanced (600 Ω or Hi-Z)
Unbalanced (Hi-Z)	Unbalanced (Low-Z)

- Balanced Hi-Z option must be specified when placing order
- Unbalanced audio reduces audio level by approximately 50%

### 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 <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-CTRL)

### Compliance

