

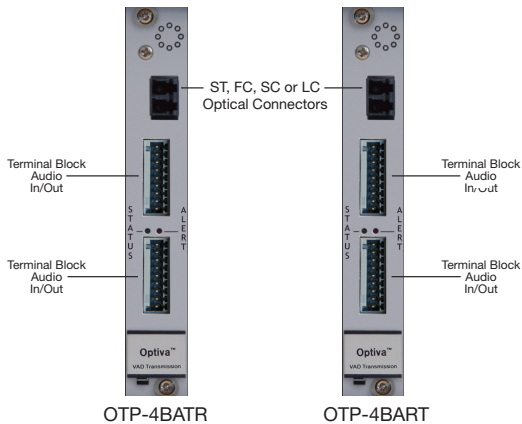
# OTP-4BATR

Duplex Terminal Block Analog Audio



DATASHEET

FIBER OPTICS



## Analog Audio Transmission

The OTP-4BATR provides for the digital transmission of 4 duplex channels of uncompressed Terminal Block Analog Audio, at absolute broadcast quality.

The OTP-4BATR is an excellent choice for transporting analog audio signals over long or short distances over a single optical fiber. The system offers the complete flexibility needed for transporting analog audio over one fiber. In addition, the OTP-4BATR is part of the innovative Optiva Series Video, Audio and Data Media Transport System. New signals may be added or fully redundant optical transport solutions may be developed.

## Features

- Duplex Analog Audio over Fiber
- Singlemode Options (up to 60 km)
- Multimode Options (up to 2 km)
- TDM - Single Wavelength
- No EMI, RFI, or Ground Loops
- Compatible with MDM-7000 Series for CWDM Multiplexing
- ROHS Compliant
- 3-Year Warranty

## Applications

- Remote OB Van/Truck Video Feeds
- Broadcast Studio Camera Feeds
- SD Routing (Requires Optilinx Optical Switch)
- Long-Haul Signal Transport
- Lecture Hall Projector Connectivity
- Medical / Surgical Room Broadcast

## System Design

Optiva insert cards support both 19" rackmount and compact 1 and 2 card tabletop or wall-mountable enclosures. The 3RU 19" rackmount enclosure (Model: OT-CC-16-100) can support up to 16 insert cards. It also supports dual-redundant, hot-swappable power supplies (Model: OT-CC-16-100-RPS) utilizing two PS-100 power supplies or two PS-200 power supplies (Model: OT-CC-16-200-RPS). Also available in the rackmount form factor is the 4-slot (Model: OT-CC-4-1U) which houses 4 insert cards in 1RU of rack space. The compact one slot (Model: OT-DTCR-1) and two slot (Model: OT-DTCR-2) enclosures both use an external power supply (Model: PS-9012).

Switching and multicasting audio signals over optical fiber is quick and simple, by routing OTP-4BATR links through the Optilinx Switching Platform, making this the perfect solution for Analog Audio Routing and Switching. The combination of Optiva and Optilinx facilitates flexibility for choice of video, audio, and data transport. With Optilinx, cabling is done once to create a completely optical transport network. Combined with Optiva, the system is flexible to transmit, switch or convert signals on custom optical mesh networks.

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## Models

Transmitter	Receiver
OTP-4BATR-A0-XX-IC	OTP-4BART-A0-XX-IC
OTP-4BATR-A1-XX-IC	OTP-4BART-A1-XX-IC
OTP-4BATR-A2-XX-IC	OTP-4BART-A2-XX-IC
OTP-4BATR-A2D-XX-IC	OTP-4BART-A2D-XX-IC
OTP-4BATR-A3-XX-IC	OTP-4BART-A3-XX-IC
OTP-4BATR-A3D-XX-IC	OTP-4BART-A3D-XX-IC
OTP-4BATR-L4x1-XX-IC	OTP-4BART-L4x1-XX-IC
OTP-4BATR-NOC-IC	OTP-4BART-NOC-IC

For ordering, please substitute "XX" in the model for one of the following optical connectors: ST, FC, SC, or LC.

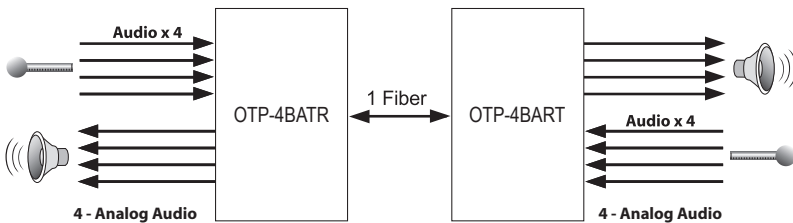
## Optical Specifications

Code	Fiber Type	Wavelength	Optical Budget	Distance
A0	Multimode	850 nm	7 dB	0.5 km
A1	Multimode	1310 nm	5 dB	2 km
A2	Singlemode	1310 nm	7 dB	10 km
A2D	Singlemode	1310 nm	12 dB	20 km
A3	Singlemode	1550 nm	17 dB	40 km
A3D	Singlemode	1550 nm	25 dB	60 km
L4x1	Singlemode	CWDM	Varies	20-70 km

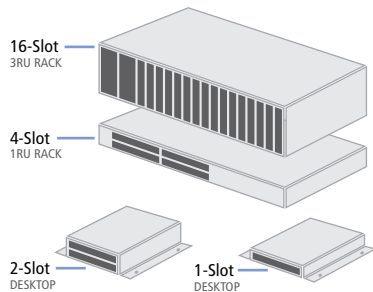
Chromatic dispersion as well as other losses should also be taken into account

Stated distances are the maximum range, shorter distance may require attenuation

## Sample Configuration

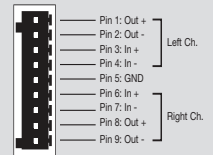


## Enclosure Options



## 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	Terminal Block (Pinout Diagram)



## 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

## Monitoring & Control

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

Opticomm-EMCORE reserves the right to change specifications without prior notice.

