

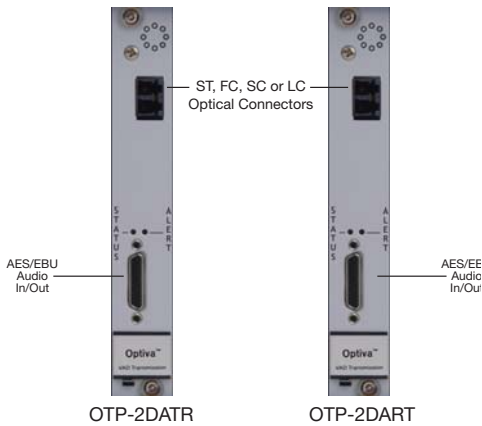
OTP-2DATR

Duplex AES/EBU Stereo Digital Audio



DATASHEET

FIBER OPTICS



Digital Audio Transmission

The OTP-2DATR provides for the transmission of 2 duplex channels of Stereo AES/EBU Digital Audio.

The OTP-2DATR offers the complete flexibility needed to transport digital audio over a single optical fiber. The system is an excellent choice for transporting AES/EBU audio signals over long or short distances with one fiber. In addition, the OTP-2DATR 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 Digital 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
- 3-Year Warranty

Applications

- Remote OB Van/Truck Video Feeds
- Broadcast Studio Camera Feeds
- 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 AES/EBU audio signals over optical fiber is quick and simple, by routing OTP-2DATR links through the Optilinx® Switching Platform, making this the perfect solution for Stereo Digital 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-2DATR-A1/A3M-XX	OTP-2DART-A3M/A1-XX
OTP-2DATR-A2/A3-XX	OTP-2DART-A3/A2-XX
OTP-2DATR-A2/A3D-XX	OTP-2DART-A3D/A2-XX
OTP-2DATR-A2/A3H-XX	OTP-2DART-A3H/A2-XX
OTP-2DATR-L4x1/L4x1-XX	OTP-2DART-L4x1/L4x1-XX
OTP-2DATR-NOC	OTP-2DART-NOC

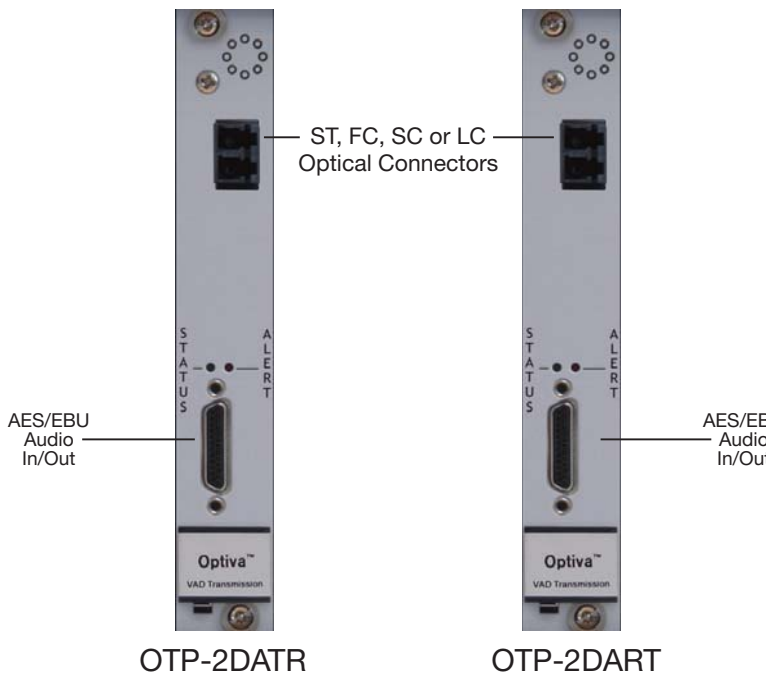
- When ordering, please substitute the "XX" in the model for one of the following optical connectors: ST, FC, SC, or LC.
- Standard SC connector type is UPC. APC is available upon request.

Optical Specifications

Ordering Code	Wavelength & Fiber Type	Optical Budget (dB)	Range (km)	Output Power (dBm)	RX Overload	Typical RX Sensitivity
A1/A3M	1310/1550 MM	5	3	-5.5 to 0.5	0	-17
A2/A3	1310/1550 SM	12	20	-5.5 to 0.5	0	-18
A2/A3D	1310/1550 SM	17	40	-3.5 to 1.5	0	-21
A2/A3H	1310/1550 SM	25	60	-2.5 to 2.5	-8	-28

- Chromatic dispersion as well as other losses should also be taken into account
- Stated distances are the maximum range, shorter distance may require attenuation

Connection Diagram



Audio

Specifications	Values
Digital Format	AES/EBU AES3-1992 (ANSI S4,40) SMPTE 276M
Connector	Micro DB25

General

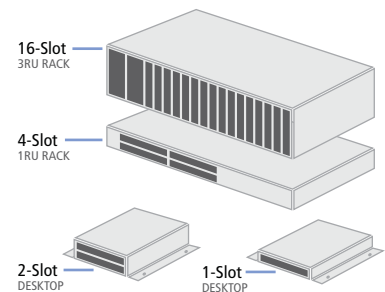
Specifications	Values
Dimensions (Insert Card)	6.69" L x 0.81" W x 5.06" H
Weight	11 oz.
Operating Temperature	-20°C to +55°C
Storage Temperature	-40°C to +85°C
Humidity	0 to 95% (non-condensing)
Operating Voltage	12 VDC
Power Consumption	6 Watts
BER	10 ⁻¹⁴
System Latency	< 1 ms
Warranty	3 years

Monitoring & Control

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

- * Requires OptivaView SNMP Controller Card (Model: OPV-CTRLR)

Enclosure Options



Compliance

