



Features

- SMPTE Compliant
- Uncompressed HD-SDI Video over Fiber
- Singlemode Options (up to 70 km)
- Multimode Options (up to 2 km)
- All-Digital Processing for Crystal Clear Picture with No Compression
- Real-Time Video Transmission for Exceptional Quality and Resolution
- TDM - Single Wavelength
- No EMI, RFI, or Ground Loops
- 3-Year Warranty

Applications

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

HD-SDI Video Transmission

The Optiva OTP-1HD1LB provides for the transmission of 1 channel of uncompressed HD-SDI video with loopback, over long or short distances, using a single fiber.

In addition, the OTP-1HD1LB 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.



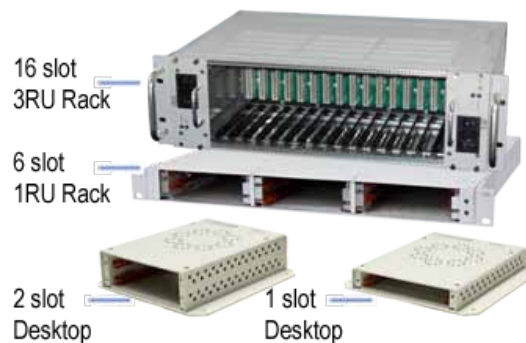
System Design

Optiva insert cards support both 19" rackmount and compact tabletop or wall-mountable enclosures. The 3RU 19"

optiva PLATFORM

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.

Enclosure Options



U.S. Patent #'s 7720385 & 8064773

DATASHEET **FIBER OPTICS**

Models

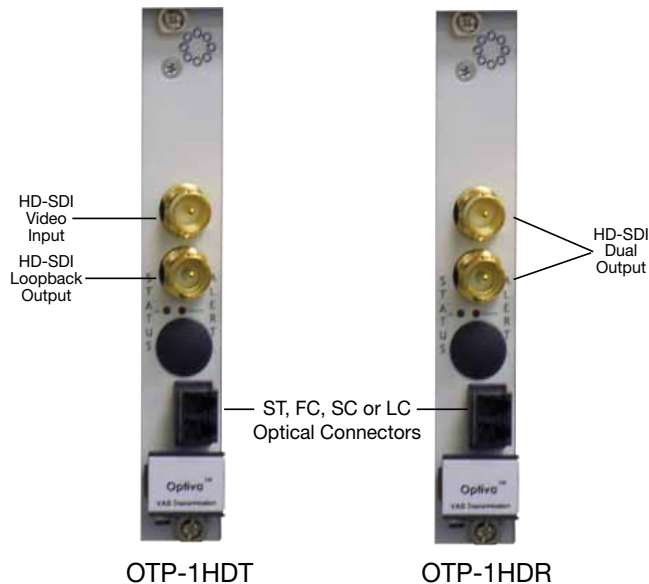
Transmitter	Receiver
OTP-1HDT1LBT-XX-YY	OTP-1HDR1LBR-XX-YY
OTP-1HDT1LBT-L4x2-YY	OTP-1HDR1LBR-L4x2-YY
OTP-1HDT1LBT-NOC	OTP-1HDR1LBR-NOC

- When ordering replace "XX" 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 L4x2 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

Simplex Optical Specifications

Optical Code "XX"	Fiber Type / Number	Wavelength (nm)	Min. Output Power (dBm)	Rx Sensitivity (dBm)	Optical Budget (db)	Distance (km)	Connector Options "YY"
B0	MM/1	850	-10	-17	7	0.5	LC, SC, ST, FC
B1	MM/1	1310	-5.5	-10.5	5	2	LC, SC, ST, FC
B2	SM/1	1310	-5.5	-12.5	7	10	LC, SC, ST, FC
B2D	SM/1	1310	-5.5	-17.5	12	20	LC, SC, ST, FC
B3	SM/1	1550	-3.5	-20.5	17	40	LC, SC, ST, FC
B3D	SM/1	1550	0	-25	25	60	LC, SC, ST, FC
L4x2	SM/1	1270 to 1610 (CWDM)	-2.5	-27.5	25	50 to 70	LC, SC, ST, FC

Connection 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 ⁻¹⁴
System Latency	< 1 ms
Warranty	3 Year

Video

Specifications	Values
Standards	SMPTE 292 & 259
Pathological Test Code	RP-178
Nominal Bit Rate	1.485 Gbps; 270 Mbps
Bit Error Rate	10 ⁻¹⁴
Connector	BNC (IEC 60169-8; Gold Plated)

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

