



Features

- SMPTE 424M, 292M, 259M Compliant
- Singlemode options (up to 50 km)
- Two independent output streams (2 x 2.97 Gb/s) with local loopbacks
- Each card contains cable driver and reclocker per SMPTE 424M, Transmitter also includes adaptive cable equalizer

Applications

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

3G HD-SDI Video over Fiber

The Optiva OTP-2HDP provides for the transmission of 2 independent channels of uncompressed 3Gb/s HD-SDI video, over long or short distances, using a single fiber.

In addition, the OTP-2HDP 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" 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



Opticomm's wide range of 3GHD transport solutions makes your choice easy when looking for a flexible, future-proofed system, that you can operate for years to come. Look for our signature "3G HD" symbol on all Opticomm-EMCORE products that are compatible with the SMPTE standard for 1080p video transport. It is a symbol of the quality, reliability and flexibility you get on every link!

DATASHEET **FIBER OPTICS**

Models

Transmitter	Receiver
OTP-2HDPT-XX/XX-LC	OTP-2HDPR-XX/XX-LC

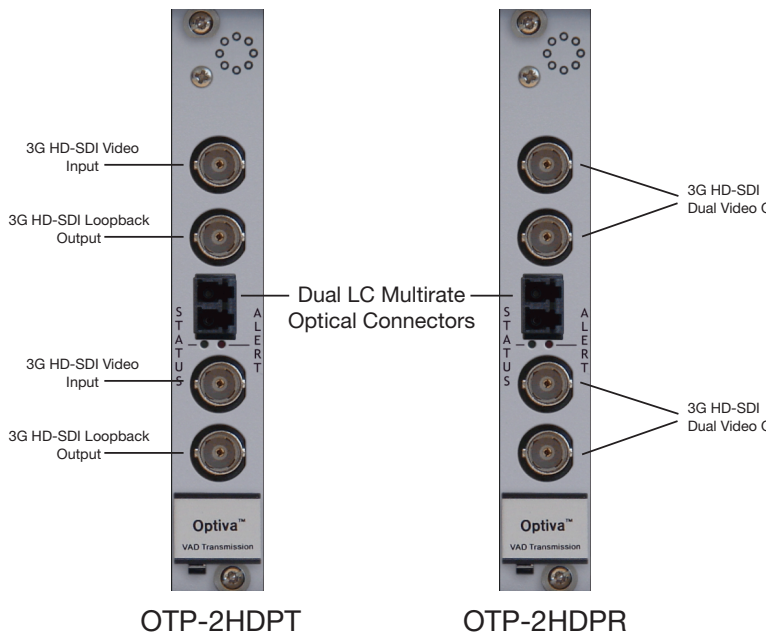
■ When ordering, replace XX/XX with one of the optical codes specified below

Optical Specifications

Code	Wavelength (nm)	Distance (Km)	Output Power (dBm)	RX Sensitivity (dBm)	Budget Loss (minimum)
D1/D1	1310 MM	0.5	-5 to 0	-	12
D2/D2	1310 SM	10	-5 to 0	-	12
D2D/D2D	1310 SM	30-60	0 to 3	-	14
D3/D3	1550 SM	50-80	0 to 3	-	14
D4A/D4B	1270/1290 SM	30-80	-5 to 0	-	12
D4C/D4D	1310/1330 SM	30-80	-5 to 0	-	12
D4E/D4F	1350/1370 SM	30-80	-5 to 0	-	12
D4G/D4H	1390/1410 SM	30-80	-5 to 0	-	12
D4I/D4J	1430/1450 SM	30-80	-5 to 0	-	12
D4K/D4L	1470/1490 SM	30-80	-5 to 0	-	12
D4M/D4N	1510/1530 SM	30-80	-5 to 0	-	12
D4O/D4P	1550/1570 SM	30-80	-5 to 0	-	12
D4Q/D4R	1590/1610 SM	30-80	-5 to 0	-	12
D5/D5	1270-1610 SM	-	-	-18	-
D6/D6	1270-1610 SM	-	-	-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
- Transmitting two SMPTE 424M signals requires two fibers

Connection Diagram



Video

Specifications	Values
Standards	SMPTE 424M, 292M, 259M
Data Rate	2.97 Gbps; 1.485 Gbps; 270 Mbps
Connector	BNC (IEC 60169-8) Gold Plated
Video Modes	480i/480p, 720p, 1080i/1080p
Max Resolution	1920 x 1080 @ 50/60 Hz
Pathological Test Code	RP-178

General

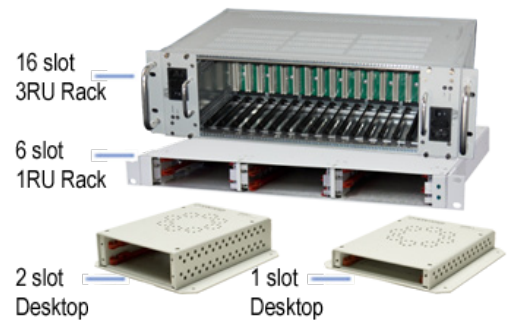
Specifications	Values
Dimensions (Insert Card)	6.3"D x 0.8"W x 4.0"H
Weight	11 oz.
Operating Temperature	-20° to +55°C
Storage Temperature	-30°C to +85°C
Humidity	0 to 95% non-condensing
Power Consumption	6.5 Watts

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

