

HD-SDI

OPTIVA™ VIDEO



Uncompressed HD-SDI Video Over Fiber

The Optiva™ Series of digital fiber optic transmission systems accommodate anywhere from 1-16 uncompressed HD-SDI Video channels (per SMPTE 292M) over one fiber. Each video input will also accept uncompressed SDI Video at 270 Mbps (per SMPTE 259M). Visit the "Product Configurator" at www.opticom.com to design a system to your precise requirements.

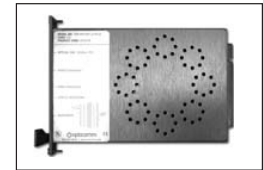
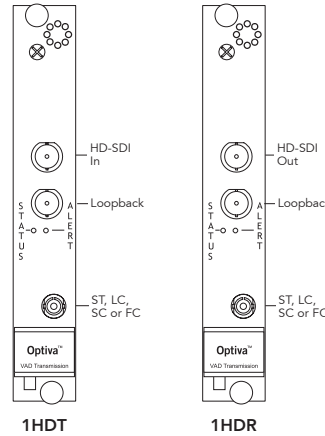
System Design

Optiva™ systems utilize daisy-chain multiplexing to optimize bandwidth allocation. Optical multiplexing can be integrated to enable increased channel requirements. All cards are hot-swappable and can be housed in a 19" rack solution (3RU or 1RU) or as stand alone units using a number of different ruggedized Desktop Card Racks (OT-DTCRs).

Specifications

Conforms to Standard	SMPTE 292 and 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)

Specifications subject to change without notice.



Each insert card comes with a label identifying the specific protocols handled, connector pin-out and other vital information.

For optimal bandwidth allocation, each insert card can daisy-chain with an additional card in the same chassis.

Features

- Up to 70 km range over one fiber without repeaters
- Digital video per ITS-601 4:2:2 and SMPTE 259/292
- Daisy-chain capability
- SNMP Network Management
- EMI and RFI immunity
- Stand alone or rack-mount, hot-swappable
- Upgradeable system

1310	1310 (D)	1550	1550 (D)	1270-1610 (CWDM)	Mode	Wavelength Suffix	Fiber Type	Optical Loss Budget	Range*	Connection Types Available
•					MM	A/B 1	50/125μ 62.5/125μ	10 dB	1-3 km	ST, FC, SC or LC
•					SM	A/B 2	09/125μ	7 dB	10 km	ST, FC, SC or LC
	•				SM	A/B 2D	09/125μ	12 dB	20 km	ST, FC, SC or LC
		•			SM	A/B 3	09/125μ	17 dB	40 km	ST, FC, SC or LC
			•		SM	A/B 3D	09/125μ	25 dB	60 km	ST, FC, SC or LC
				•	SM	L4	09/125μ	Varies	20-70 km	ST, FC, SC or LC

* Chromatic dispersion and additional losses should be taken into account; link budget and range may be affected by bandwidth required.

