

Uncompressed SDI Video Over Fiber

The Optiva™ Series of digital fiber optic transmission systems accommodate anywhere from 1-112 uncompressed Serial Digital Interface (SDI) Video channels over one fiber. Visit the “Product Configurator” at www.opticomm.com to design a system to your precise requirements.

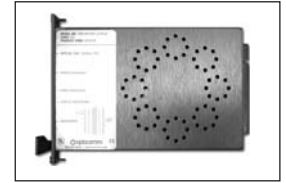
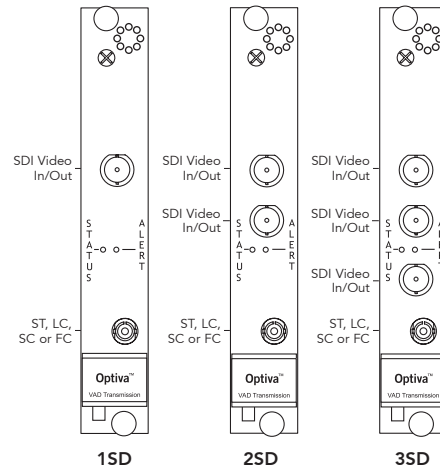
System Design

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 259
Pathological Test Code	RP-178
Bit Rate	270 Mbps
Bit Error Rate	10 ⁻¹⁴
Connector	BNC (IEC 60169-8)

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
- Singlemode laser-based operation
- Digital video per ITS-601 4:2:2 and SMPTE 259
- 10-bit code uncompressed
- 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.

