



OPTTEL
OPTOELETTRONICA
TELECOMUNICAZIONI

FOM-400

SERIES

> 20 DB OPTICAL POWER BUDJET

4 VIDEO CHANNELS MULTIPLEX SYSTEM

TRANSMISSION OF UP TO 4 COMPOSITE VIDEO CHANNELS OVER A SINGLE OPTICAL FIBER

■ FEATURES

- Very high quality simultaneously transmission of 4 composite video channels (5 Hz - 8 MHz) (Video + 2 Audio subcarriers)
- 8HE 3U Eurocard shielded package
- High power optical sources, operating at 1310 and 1550 nm wavelengths for 9/125 SM fiber
- High sensitivity optical receivers for very long di-stance (> 20 dB optical power budjet) transmission systems).



Subrack fully equipped with 2 PS, 6 FOM-400-T or 6 FOM-400-R cards

■ APPLICATIONS

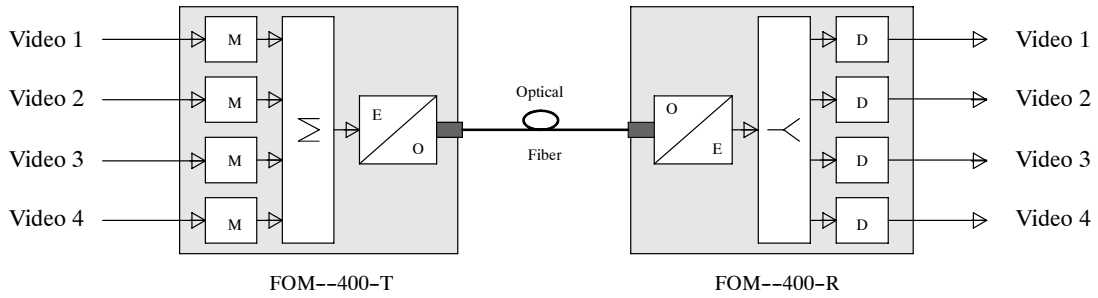
- High density Video monitoring and security for railway, road, airport, etc
- Video conferencing inclusive of sound and data.
- TV distribution Networks

PRODUCT RANGE

MODELS	DESCRIPTION
FOM-401-T	OPTICAL 4 VIDEO MULTIPLEXER, LD-FP, 1310 nm, EUROCARD
FOM-402-T	OPTICAL 4 VIDEO MULTIPLEXER, LD-FP, 1550 nm, EUROCARD
FOM-403-T	OPTICAL 4 VIDEO MULTIPLEXER, LD-DFB, 1310 nm, EUROCARD
FOM-404-T	OPTICAL 4 VIDEO MULTIPLEXER, LD-DFB, 1550 nm, EUROCARD
FOM-401-R	OPTICAL 4 VIDEO DEMULTIPLEXER, PIN, 1300 - 1550 nm, EUROCARD
STE-820	SUBRACK, 19" 3U, with POWER SUPPLY

FOM-400 SERIES TECHNICAL SPECIFICATIONS

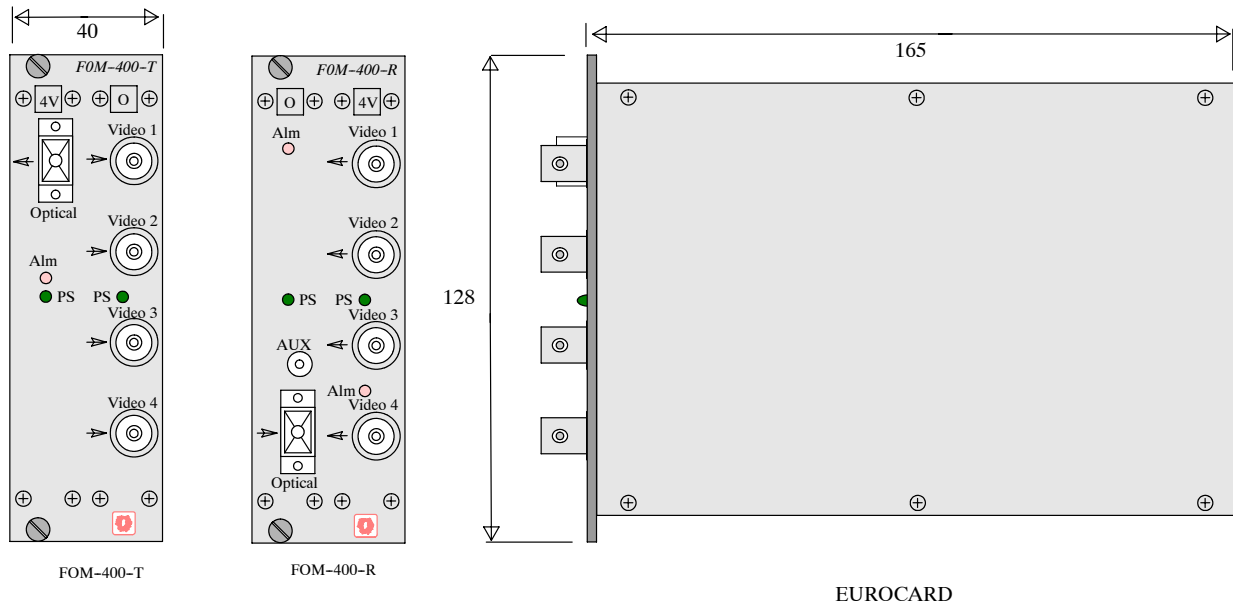
OPTICAL LINK FUNCTIONAL BLOCK SCHEMATIC



CHARACTERISTICS(Typical)

OPTICAL	FOM-401-T	FOM-402-T	FOM-403-T	FOM-404-T	FOM-401-R
- Operating wavelength (nm)	1310	1550	1310	1550	
- Optical source / Detector	LD-FP	LD-FP	LD-DFB	LD-DFB	PIN
- Fiber optic					SM
- Transmitted optical power(dBm)	+2	+2	+4	+4	
- Optical receiver sensitivity(dBm)					-20
- Optical link power budget (dB)				20/22	
- Optical receiver AGC range (dB)				10	
VIDEO					
- Input/Output nominal level and impedance	1Vpp / 75 Ohm				
- Input/Output 3 dB Video only channel BW	5 Hz to 8 MHz				
- Differential Gain	2 %				
- Differential Phase	2°				
- Luminance non linearity	2 %				
- Signal-to-Noise ratio (weighted, Pr > -18 dBm)	> 60 dB				
- Frequency response (5Hz to 5.5 MHz)	100 +/- 10%				
- Group Delay (5Hz to 5.5 MHz)	< 50 nsec				
MECHANICAL & ENVIRONMENTAL					
- Optical TX and RX Eurocard package (size)	160x110x40 mm				
- rack type	19" 3U				
- rack equipment with power supply	4 FOMs TX/RX				
- operating temperature	+5 to +45 °C				
- Storage temperature	-40 to + 70 °C				

FOM-400 MECHANICS



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OPTEL snc - Via Don Milani 7
20063 - CERNUSCO S/N - Milano - ITALY
Tel. +39-2-92102981 Fax.+39-2-92105987