



6 to 9 DB OPTICAL POWER BUDJET

LOW COST 4 VIDEO CHANNELS MULTIPLEX SYSTEM

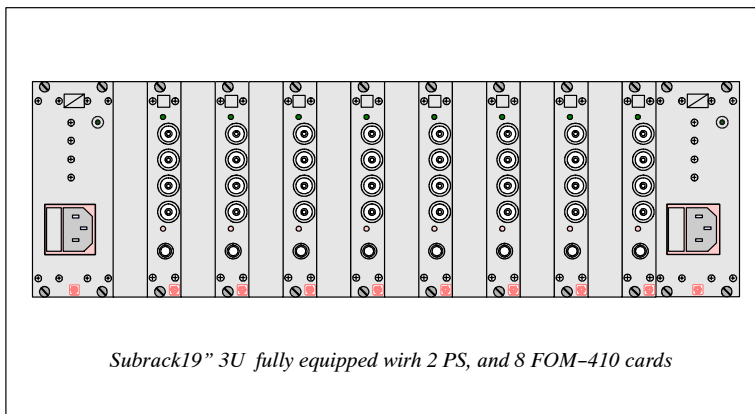
TRANSMISSION OF UP TO 4 COMPOSITE VIDEO CHANNELS OVER A SINGLE OPTICAL FIBER

■ **FEATURES**

- High quality simultaneously transmission of 4 composite video channels (5 Hz - 8 MHz) (Video + 2 Audio/Data subcarriers)
- 4HE 3U Eurocard shielded package
- Optical sources, operating at 850 and 1310 nm wavelengths for MM fiber and SM fiber
- 6 to 9 dB optical power budget fully with AGC

Maximum link length :

- 62,5/125 MM fiber 1 Km
- 50/125 MM fiber 2 Km
- 9/125 SM fiber 18 Km



■ **APPLICATIONS**

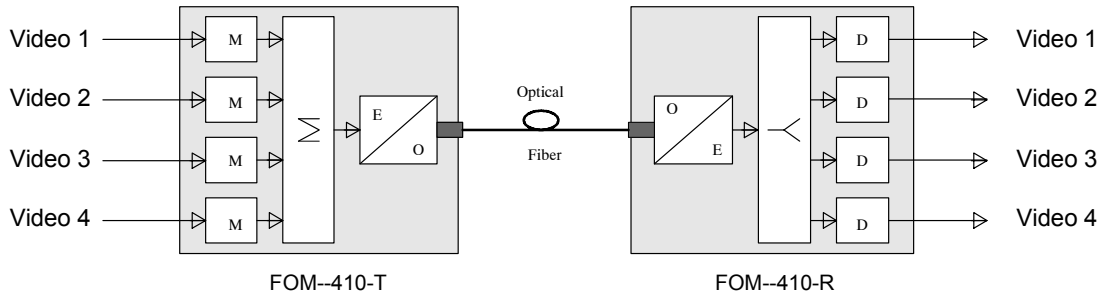
- High density Video monitoring and security for railway, road, airport, etc
- Video conferencing inclusive of sound and data.
- TV distribution Networks

PRODUCT RANGE

MODELS	DESCRIPTION
FOM-411-T	OPTICAL 4 VIDEO MULTIPLEXER, VCSEL, 850 nm, MM fiber, EUROCARD
FOM-412-T	OPTICAL 4 VIDEO MULTIPLEXER, LD-FP, 1310 nm, MM & SM fiber, EUROCARD
FOM-411-R	OPTICAL 4 VIDEO DEMULTIPLEXER, PIN, 850 nm, MM fiber, EUROCARD
FOM-412-R	OPTICAL 4 VIDEO DEMULTIPLEXER, PIN, 1310 nm, MM & SM fiber, EUROCARD
STE-820	SUBRACK, 19" 3U, with POWER SUPPLY

FOM-410 SERIES TECHNICAL SPECIFICATIONS

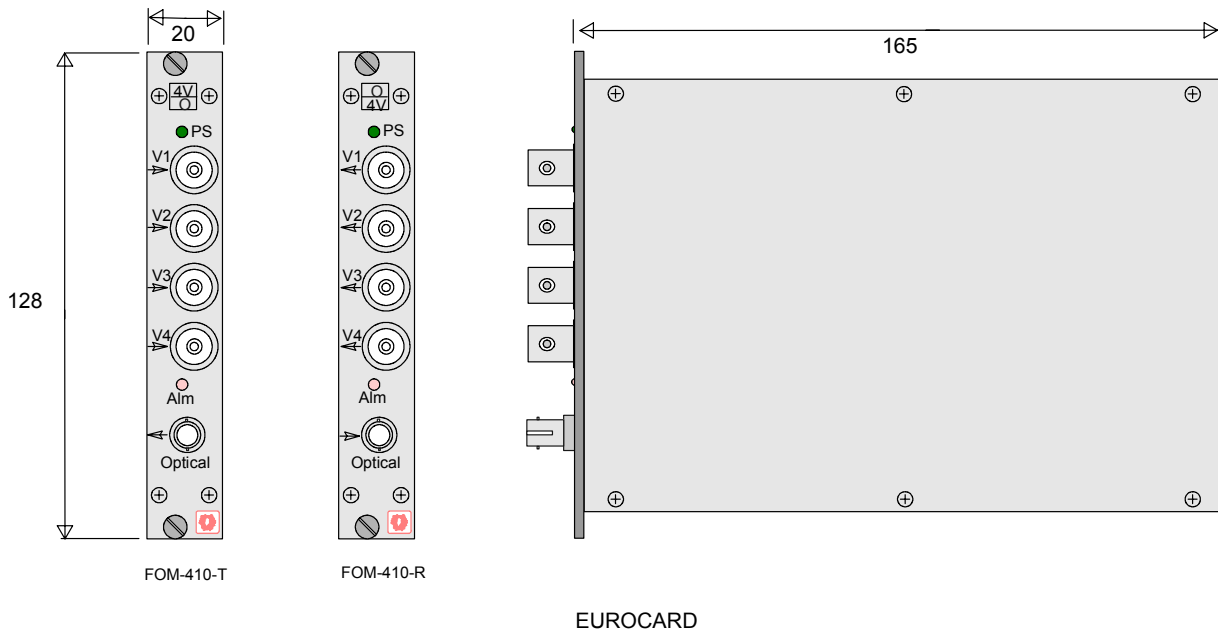
OPTICAL LINK FUNCTIONAL BLOCK SCHEMATIC



CHARACTERISTICS(Typical)

OPTICAL	FOM-411-T	FOM-412-T	FOM-411-R	FOM-412-R
- Operating wavelength (nm)	850	1310	850	1310
- Optical source / Detector	VCSEL	LD-FP	PIN	PIN
- Fiber optic	MM	MM & SM	MM	MM & SM
- Transmitted optical power(dBm)	-3	0		
- Optical receiver sensitivity(dBm)			-9	-9
- Optical link power budget (dB)			6 / 9	
- 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			< 3 %	
- Differential Phase			< 5 °	
- Luminance non linearity			< 3 %	
- Signal-toNoise ratio (weighted, Pr > -10 dBm)			>> 60 dB	
- Frequency response (5Hz to 5.5 MHz)			100 +/- 10%	
- Group Delay (5Hz to 5.5 MHz)			< 80 nsec	
MECHANICAL & ENVIRONMENTAL				
- Optical TX and RX Eurocard package (size)			160x110x20 mm	
- Subrack type			19" 3U	
- Subrack equipment with power supply			8 FOMs TX/RX	
- Operating temperature			+5 to +45 °C	
- Storage temperature			-40 to + 70 °C	

FOM-410 MECHANICS



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