

# FEO-871p

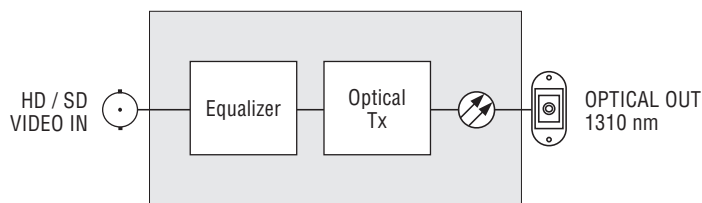
## HD/SD to fiber optic converter



The FEO-871p is a compact stand-alone solution for transmitting Standard Definition digital video (SMPTE 259M SDI 270 Mbps) as well as High Definition signal (SMPTE 292M up to 1.5 Gbps) through a fiber optic link. The laser transmitter, when interconnected with the FOE-871p, can reach distances up to 15 km (depends on the optical link) on single mode fiber optic allowing transparent digital transmission for short haul applications. The FEO-871p can be used stand-alone or can be mounted in a special rack tray that allows the picoLink fiber converters to become an electrical to optical patch field. The fiber picoLink converters' flexible packagings make them ideal for both temporary and permanent, intra and inter-facility fiber optic links.

### KEY FEATURES AND BENEFITS

- › Supports any serial data rate from 5 Mbps to 1.5 Gbps including ATSC, SDI & HD-SDI
- › Equalized serial digital video from 143 Mbps to 1.5 Gbps
- › Supports SMPTE 259M, SMPTE 292M, SMPTE 305, SMPTE 310M, DVB-ASI
- › Laser transmitter allowing longer distances over single mode fiber optic at 1310 nm
- › Status LED indication
- › Cost effective solution, compact and lightweight
- › Standalone mounting
- › Optional rack mount tray turns picoLink into optical patch field



FEO-871p Functional Block Diagram

### TECHNICAL SPECIFICATIONS

INPUT		Cable length:		OUTPUT		ELECTRICAL	
Signal:	SMPTE 259M-A-C (143, 270 Mbps)	75 m (250')	at 1.485 Gbps (Belden 1694A)	Signal:	Optical Laser	Voltage:	5 VDC
	SMPTE 292M (1.485, 1.485/1.001 Gbps)	Return loss:	>15 dB up to 1.5 GHz	Wavelength:	1310 nm	Power:	1.5 W
	SMPTE 305M (SDTI)	Connector:	75 ohm BNC	Output power:	-7.5 dBm		
	SMPTE 310M (5 to 40 Mbps)			Fiber type:	Single mode		
	DVB-ASI			Connector:	Optical SC/PC		
				Processing delay:	15 ns		
				Mechanical form factor:	Short picoLink (3.5"), allowing up to 10 units into the picoTray		

### ORDERING INFORMATION

FEO-871p HD/SD picoLink electrical to optical converter

#### Accessories

LKS-WSU Power supply for 110 V or 220 V  
 pico-PA 12 V to 5 V power adaptor  
 pL-Tray 40 W rack mounted tray for up to 10 picoLinks