

# FEO-871p HD/SD to Fiber Optic Converter

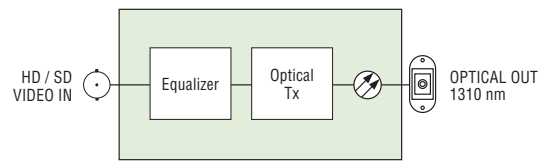


The FEO-871p is a compact stand-alone solution for transmitting Standard Definition digital video (SMPTE 259M SDI 270 Mbps) as well as High Definition signal (SMPTE 292M up to 1.5 Gbps) through a fiber optic link. The laser transmitter, when interconnected with the FOE-871p, can reach distances up to 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 @ 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

<b>INPUT</b>	<b>OUTPUT</b>
<b>SIGNAL:</b> SMPTE 259M-A-C (143, 270 Mbps) SMPTE 292M (1.485, 1.485/1.001 Gbps) SMPTE 305M (SDTI) SMPTE 310M (5 to 40 Mbps) DVB-ASI	<b>SIGNAL:</b> Optical Laser
<b>CABLE LENGTH:</b> 75 m (250') at 1.485 Gbps (Belden 1694A)	<b>WAVELENGTH:</b> 1310 nm
<b>RETURN LOSS:</b> >15 dB up to 1.5 GHz	<b>OUTPUT POWER:</b> -7.5 dBm
<b>CONNECTOR:</b> 75 Ω BNC	<b>FIBER TYPE:</b> Single mode
	<b>CONNECTOR:</b> Optical SC/PC
	<b>PROCESSING DELAY:</b> 15 ns
	<b>MECHANICAL FORM</b>
	<b>FACTOR:</b> Short picoLink (3.5"), allowing up to 10 units into the picoTray
	<b>POWER VOLTAGE:</b> 5 V DC
	<b>CONSUMPTION:</b> 1.5 W

## Ordering Information

FEO-871p	HD / SD picoLink Electrical to Optical Converter	Accessories:	
		LKS-WSU	Power Supply For 110 V or 220 V
		LKS-CPS	Centralized Power Supply For Up To 10 units
		pL-Fiber Tray	picoLink Fiber Patch Tray And Power Supply
		pico-PA	12V to 5V Power Adaptor