SYS COM TEC Distribution AG

FIBERLINK® VIDEO, AUDIO & DATA OVER FIBER

7820 Series HD/SD Component, S-Video, Composite Video

Ideal Applications:

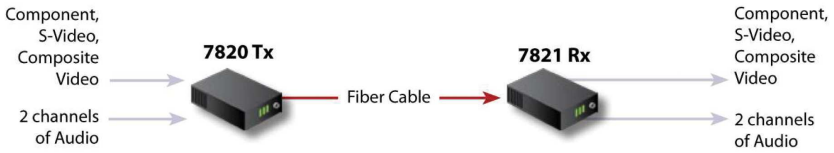
Videoconferencing, Broadcast and Cable TV, Digital Signage

One unit, three modes of operation!

Over one single mode or multimode fiber, you can transmit:

- One Component Video & Stereo Audio
- One S-Video, one Composite Video and Stereo Audio
- Three Composite Video & Stereo Audio

Signal	Channels	Direction
Video	1 to 3	→
Audio	2	→



Features

- 30 MHz Component Video bandwidth
- 15 MHz Composite and S-Video bandwidth per channel
- Supports 1080i and 720p Component Video
- Video channel is compatible with NTSC, PAL or SECAM video standards
- Two audio channels that may be user-configured for balanced or unbalanced inputs and outputs
- Switch selectable audio output gain boost of +0 dB or +6 dB
- Indicator LEDs monitor power, video and audio signals
- Transmits over one multimode or single mode fiber
- No adjustments; pure digital processing and transmission
- Wide range power supply allows operation from both AC and DC sources
- System consists of transmitter and receiver unit; card or box version. Each end, plus power supply, must be purchased separately.
- Card version fills two slots in 6000A card cage

Ordering Information

Part Number	Description	Fiber Cores
7820-B7S	Transmitter, Box Version	1
7820-C7S	Transmitter, Card Version	1
7821-B7S	Receiver, Box Version	1
7821-C7S	Receiver, Card Version	1
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America
JP - Japan
AU - Australia
UK - United Kingdom
EU - Europe

Sales

CSI Communications Specialties, Inc.
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Video Specifications

Frequency Response Composite & S-Video: Component Video:	 15 MHz (-3 dB) Y: 30 MHz (-3dB) PrPb: 15 MHz (-3dB)
Input/Output Impedance	75 Ohms, nominal
Signal-to-Noise Ratio	60 dB (CCIR weighted)
Differential Gain	0.7%
Differential Phase	0.5°
Y/C Delay	< 5 ns
2T K-Factor	0.5%
System Gain	Unity Gain, ± 3%
Video Connectors	BNC; 4-Pin Mini-DIN for S-Video

Audio Specifications

Number of Audio Channels	2, balanced or unbalanced
Bits per sample/ Sampling Rate	24 bits, 64 kHz
Audio Connector	Screw terminal block
Switches	• Select input termination • Balanced or unbalanced input/output, selectable on a per-channel basis • Output gain boost +0 dB or +6 dB
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Maximum Audio Level	+10 dBu
Signal-to-Noise Ratio (A-weighted)	95 dB referenced full scale (balanced)
THD	0.002%, 20Hz - 20 kHz, full scale
Channel Phase Differential	±0.1°
Crosstalk	-100 dB (1kHz)
Audio Noise Level	-85 dBm
System Gain	Unity Gain, ±3%, input: balanced 600 ohms, 50 ohms source impedance ; output: balanced into 600 ohms, gain boost 0 dB.
Receiver Output Gain	+0 dB or +6 dB; switch selectable
Input Impedance	600 Ohms terminated, >24K ohms unterminated
Output Impedance	50 Ohms nominal
Audio to Video Diff. Delay (skew)	<300 usec

General Specifications

Three modes of transmit operation:	One Component Video & Stereo Audio One S-Video, one Composite Video and Stereo Audio Three Composite Video & Stereo Audio
Compatibility	Fiberlink Matrix
LED Indicators	(1) Power, (3) Video, (1) Audio, (1) Alarm LED (card version only)
Power	9-24 volts AC or DC, TX: 4.5 Watts; 15.39 BTU/Hr RX: 4.0 Watts; 13.68 BTU/Hr
Operating Temperature Range	-10° to +60° C
Optical Connectors	ST
Operating Wavelength	1310nm
Physical Size	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	2

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GSA Schedule Contract GS-03F-5063C

UL N12911 CE FC

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
SM	0-17	40
MM (50u)	0-17	1.3
MM (62.5u)	0-17	1.0

SM = Single Mode Fiber
MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

Want to learn more about fiber?

Log on to commspecial.com for fiber related resources written for Pro A/V Professionals by Pro A/V Professionals!

3 YEAR LIMITED WARRANTY

Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

Sales

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