



PURE DIGITAL
FIBERLINK[®]

Designed & Manufactured by
CSI New York

3120 Series

Transmission of serial digital (SDI) video in accordance with SMPTE 259M, 294M and 305M digital video standards

Ideal Applications:

Broadcast, Rental and Staging



Signal	Channels	Direction
SDI Video	1	→

Features

Transmits over one multimode or single mode fiber at 1310 nm

System consists of transmitter and receiver unit. Each end, plus power supply, must be purchased separately

No adjustments; pure digital processing and transmission

Transmits wideband, digitally encoded video signals in accordance with SMPTE 259M, 294M and 305M digital video standards at data rates of 143, 177, 270 and 360 Mb/s

Supports signals with embedded audio and/or control signals

Equalized loop-through output on transmitter

Two re-clocked outputs on receiver

Indicator LEDs monitor signal and power

Receiver outputs drive up to 300 meters of coax

Card version fills one slot in 6000A card cage

Ordering Information

Part Number	Description	Fiber Cores
3120A-C7z	Transmitter, Card Version Only Supports Multimode and Single Mode Fiber	1
3121A-C7z	Receiver, Card Version Supports Multimode and Single Mode Fiber	1
3120-Byz	Transmitter, Box Version Only Supports Multimode or Single Mode Fiber	1
3121-Byz	Receiver, Box Version Only Supports Multimode or Single Mode Fiber	1
PDPS-1-pp	Power Supply	
Note:	Card transmitters will not work with box receivers. Box transmitters are compatible with card receivers.	

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

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

Part Number Suffix Codes:

y: 3	1310 nm Multimode	z: S	ST Connector
7	1310 nm Single Mode	F	FCPC Connector

Sales



CSI Communications
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Video Specifications

SMPTE 259M Data Compatibility:	143, 177, 270, 360 Mb/s
Input/Output Impedance	75 Ohms
Input/Output Return Loss	15 dB minimum
Input Coax Cable Equalization	0-300 meters, Belden 8281
Normal Input/Output Voltage	800 mv \pm 10% peak-to-peak
Output Rise/Fall Time	400 ps min.
Output Drive Capability	0-300 meters, Belden 8281
Residual Jitter	300 ps max., 150 ps typical
Signal Connectors	BNC
Bit Error Rate	At least 1×10^{-10} at maximum optical loss

General Specifications

Operating Power (per unit)	12 V to 18 V DC @ 250 ma
Operating Wavelength	1310 nm
Optical Connectors	ST: multimode; FCPC: singlemode
Operating Temperature Range	-20 to +60° C
Physical Size	3.5 W x 1.25 H x 4.75 L (inches) 89 W x 32 H x 121 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Card Version	Fills one slot in 6000A card cage

About CSI

Communications Specialties, Inc. (CSI) is an award-winning manufacturer of Pro A/V products for the distribution, conversion or transmission of television and computer video signals, including fiber optic transmission systems, scan converters and video scalars. The company was founded in 1983 by veterans of the broadcast industry. Since then, CSI has managed to consistently design innovative products that are used worldwide by Fortune 500 Companies in a variety of markets such as Broadcast/Professional A/V, Videoconferencing, Education, Home Theater, Security, ITS, Industrial Monitoring, and more!

The **Pure Digital Fiberlink**® line offers an extensive and affordable family of fiber optic transmission systems for the Professional A/V marketplace and includes several ground-breaking products for the transmission of high-resolution RGB signals. Systems for point-to-point and point-to-multipoint signal distribution make these products highly desirable for any Pro A/V architecture. New products are constantly being designed and developed and you can get the latest information at commspecial.com

Also from CSI: Scan Do® Scan Converters and Deuce® Video Scalars



Schedule
Contract GS-03F-5063C



Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
1310 MM	0-15 dB	0-2
1310 SM	0-15 dB	0-60

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!



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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UPDATED 3/12/07

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