



### 3800 Composite Video Series

Composite video and bidirectional data transmitted digitally over one or two fibers

**Ideal Applications:**  
Security, Casinos



Signal	Channels	Direction
Video	1	→
Data	1	↔

#### Features

Transmits over multimode or single mode fiber at 850, 1310 or 1550 nm using one or two fibers

No adjustments; pure digital processing and transmission

8 MHz video bandwidth

Video channel is compatible with NTSC, PAL or SECAM video standards

Bidirectional data channel supports RS-232, RS-422 and RS-485 protocols for use with most PTZ systems. Transmitter and receiver may be configured differently

Built-in diagnostic LEDs for video signal, data signal and power

Wide range power supply allows operation from low voltage 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 one slot in 6000A card cage

#### Ordering Information

Part Number	Description	Fiber Cores
3810-Bxy	Transmitter, Box Version	1
3810-Cxy	Transmitter, Card Version	1
3811-Bxy	Receiver, Box Version	1
3811-Cxy	Receiver, Card Version	1
3820-Bxy	Transmitter, Box Version	2
3820-Cxy	Transmitter, Card Version	2
3821-Bxy	Receiver, Box Version	2
3821-Cxy	Receiver, Card Version	2
PDPS-1-pp	Power Supply	

#### 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:

x:	1	850 nm Multimode	y:	S	ST Connector
	3	1310 nm Multimode		F	FCPC Connector
	7	1310 nm Single Mode			
	9	1550 nm Single Mode			

#### Sales



**CSI** Communications Specialties, Inc.

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Video Specifications	
Frequency Response	8 MHz (-3 dB)
Input/Output Impedance	75 Ohms
Normal Input/Output Voltage	1V p-p nom., 1.1V p-p max.
Differential Gain	1.5 %
Differential Phase	1.0° typical
Signal-to-Noise Ratio	60 dB CCIR weighted typical
Video Connectors	BNC
Data Specifications	
Data Bandwidth	115 Kb/sec, max.
Control Format	RS-232, RS-422, RS-485 (2-wire and 4-wire), switch selectable
Protocols	NRZ, NRZI, RZ, Manchester, Bi-phase
Data Connectors	Terminal Block
General Specifications	
Operating Wavelength	850, 1310 and 1550 nm
Number of Fibers	1 or 2
Signal Connectors	Optical: ST and FCPC;
Operating Temperature	-35° to +74° C
Relative Humidity	10% - 90% (non-condensing)
Operating Power*	9-24 volts AC or DC, 5 watts
Physical Size	1.2 H x 5 W x 7 D (inches) 30 H x 127 W x 178 D (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots Filled in 6000A Card Cage	1

\* For operation from 95-250VAC, 50/60Hz, a PDPS-1 plug-in adapter is required.

### Want to learn more about fiber?

Log on to [commspecial.com](http://commspecial.com) for fiber related resources written for Pro A/V Professionals by Pro A/V Professionals!



Operating Loss Budget & Maximum Usable Distance*		
Wavelength	Loss(dB)	Distance (km)
<i>One Fiber Version</i>		
1310 MM	0-10	0-4
1310 SM	0-19	0-45
1550 SM	11-26	40-65
<i>Two Fiber Version</i>		
850 MM	0-16	0-2
1310 MM	0-15	0-15
1310 SM	0-20	0-50
1550 SM	11-28	35-90

*sm = Single Mode Fiber  
mm = MultiMode Fiber*

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



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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