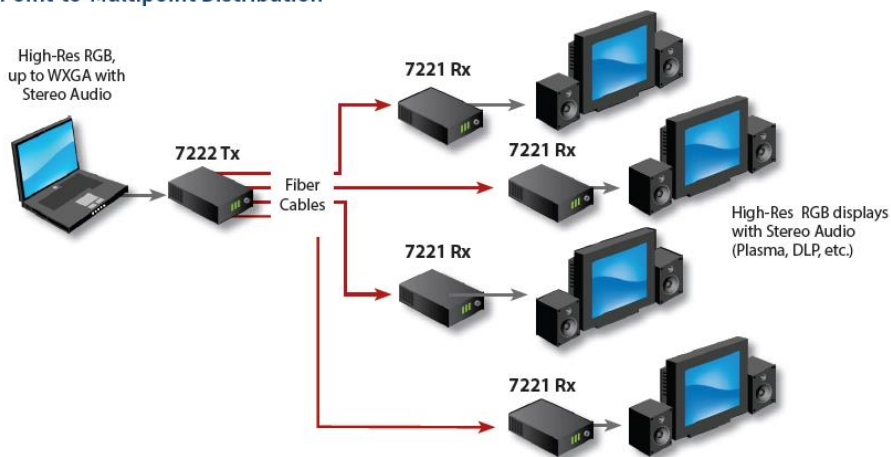# FiberLink® 7220 - RGB Series

Box or Card

Digitally transmits high-resolution RGB (up to WXGA) and stereo audio over one single mode or multimode fiber optic core

Ideal for digital signage, command and control centers, auditoriums, stadiums and theaters, transportation hubs, distance learning, surgical and medical imaging.

Point-to-Multipoint Distribution

High-Res RGB, up to WXGA with Stereo Audio

7222 Tx
Fiber Cables

7221 Rx
7221 Rx
7221 Rx
7221 Rx

High-Res RGB displays with Stereo Audio (Plasma, DLP, etc.)

FEATURES

Supports VGA, SVGA, XGA and WXGA (640 x 480 up to 1366 x 768)

Supports HDTV resolutions of 480p, 720p and 1080i (RGBHV format only)

Uses all digital processing with no compression for crystal clear signals and no color pixel skewing

Requires no adjustments, equalization or de-skewing during installation

Transmits signals over one single mode or multimode fiber optic core at 1310 nm wavelength

Low audio/video skew, <300 uSec

Use with FiberLink 8000 and 8100 Series Optical DAs for complex point-to-multipoint distribution

RoHS Compliant

7220/7221
Includes transmitter, receiver, power supplies, 250 meters of fiber and various audio and VGA cables. Box and card units available. Card versions fill one slot in 6000A card cage.

7222/7224/7226
4, 8 or 12 optical output models for point-to-multipoint distribution

Compatible with all 7220 Series receivers

1 RU case with internal power supply

7223/7225/7227
Compatible with all 7220 Series transmitters

Models support optical looping for daisy-chain distribution

Models support up to 4 baseband video and stereo audio outputs

Available in box version only.
Power supply sold separately

SPECIFICATIONS

Video Specifications

Number of Video Channels Supported

7220, 7221, 7223, 7225, 7227	1 RGBHV
7222, 7224, 7226	1 RGBHV with active loop-thru on input

Number of Baseband Video Outputs

7221, 7225	1 RGBHV
7223, 7227	4 RGBHV
RGB Processing	24 bits, no compression, scaling or color space conversion
Input Impedance	RGB: 75 Ohms; H & V: Hi-Z
Input Level	RGB: 714 mV p-p; H & V: 3 to 5 V p-p
H Sync Frequency Range	31.5 to 60 kHz
V Sync Frequency Range	30 to 85 Hz
RGB Format Supported	RGB with separate H and V

Audio Specifications

Number of Audio Channels Supported

7220, 7221, 7223, 7225, 7227	2, unbalanced
7222, 7224, 7226	2, unbalanced, with passive loop-thru on input

Number of Baseband Audio Outputs

7221, 7225	2, unbalanced
7223, 7227	8, unbalanced
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Bits-per-Sample/Sampling Rate	24 bits; 54 kHz
THD+N	0.005%, 20 Hz - 20 kHz
Maximum Audio Level	+10 dBu
SNR (A-Weighted)	95 dB
Channel Phase Differential	+0.1o
Crosstalk	Min. 95 dB (1kHz)
Input Impedance	>24 k Ohms
Output Impedance	< 1 Ohm
Audio to Video	
Differential Delay (skew)	<300 uSec

General Specifications

LED Indicators	Power, Video, Audio
Card version only of 7220 & 7221	Alarm LED
Power Requirements	
7220*, 7221*	9-24 volts AC or DC, 5 watts
7222, 7224, 7226	95-250 volts AC, 47-63 Hz, 9 watts
7223*, 7225*, 7227*	9-24 volts AC or DC, 8 watts

Physical Size

7220, 7221	5 W x 1.15 H x 5.25 L (inches)
	127 W x 29 H x 133 L (mm)
7222, 7224, 7226	16.75 W x 1.75 H x 10 D (inches)
	425 W x 44 H x 254 D (mm)
7223, 7225, 7227	6.5 W x 1.15 H x 8 L (inches)
	165 W x 29 H x 203 L (mm)

Operating Loss Budget & Maximum Usable Distance*

Wavelength	Loss(dB)	Distance (km)
1310 MM	0-15	0.75
1310 SM	0-15	30

SM = Single Mode Fiber
MM = Multimode Fiber

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

Ordering Information

Part Number	Description	Fiber Cores
7220-B7S	Transmitter, Box Version	1
7220-C7S	Transmitter, Card Version	1
7221-B7S	Receiver, Box Version	1
7221-C7S	Receiver, Card Version	1
7222-7S-pp	Transmitter (1 RU), 4 optical outputs	4
7224-7S-pp	Transmitter (1 RU), 8 optical outputs	8
7226-7S-pp	Transmitter (1 RU), 12 optical outputs	12
7223-B7S	Receiver (Box), 4 RGB w/audio outputs	1
7225-B7S	Receiver (Box), 1 RGB w/audio output, 1 re-clocked optical loop-through	2
7227-B7S	Receiver (Box), 4 RGB w/audio outputs, 1 re-clocked optical loop-through	2
PDPS-1-pp	Power Supply	
6340	ST-M to FCPC-F adapter for multimode fiber	
6350	ST-M to FCPC-F adapter for single mode fiber	

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

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

Sales

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CS206-7220_B