

7220 SERIES

Digitally transmits high-resolution RGB (up to WXGA) and stereo audio over one fiber, in point-to-point, point-to-multipoint and drop-and-repeat configurations



7220 SERIES (all models) - Digital		
SIGNAL	CHANNELS	DIRECTION
RGB	1	→
Audio	2	→

OPTICAL OUTPUTS		
MODEL	STANDARD	LOOP-THRU
7220	1	0
7222	4	0
7224	8	0
7226	12	0
7225, 7227	0	1
7221, 7223	0	0

BASEBAND OUTPUTS		
MODEL	RGB	AUDIO
7221, 7225	1	2
7223, 7227	4	8
7220	0	0
7222, 7224, 7226	1 input loop-thru	2 input loop-thru

Description and 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 and transmission 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

Ideal for digital signage, broadcast or corporate studios, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, surgical or medical imaging

Use with Pure Digital Fiberlink 8000 and 8100 Series Optical DAs for complex point-to-multipoint distribution

7220/7221

Complete kit available for a point-to-point "ready to install" solution. 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

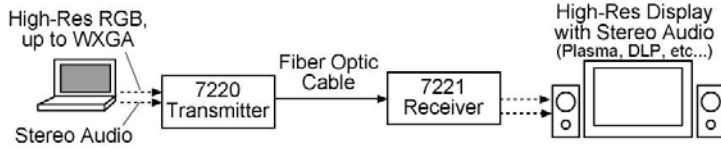
UPDATED 2/23/05

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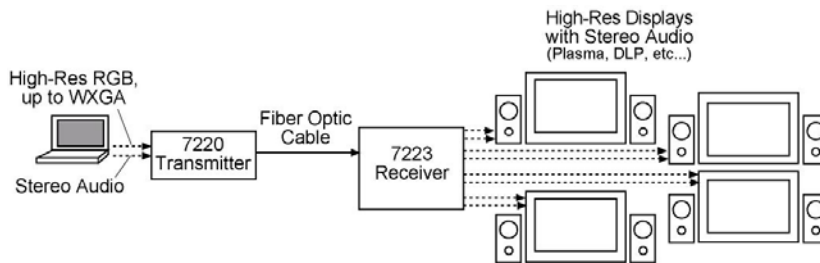




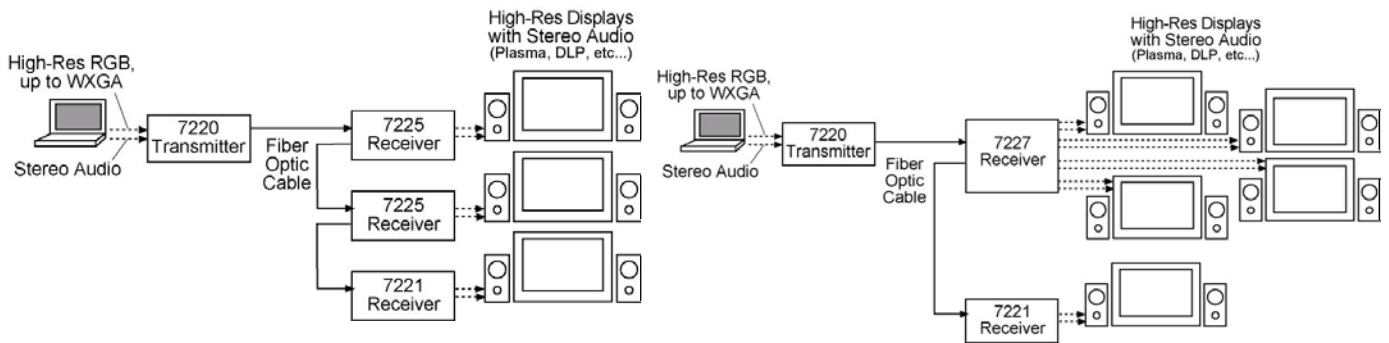
Point-to-Point Distribution



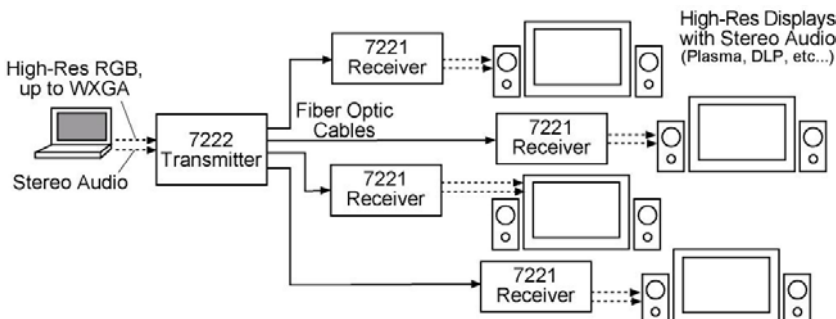
Point-to-Point Distribution; Multiple Baseband Outputs



Drop-and-Repeat Distribution with Optical Loop-Through at Receiver; 1 or 4 Baseband Outputs



Point-to-Multipoint Distribution



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OPTICAL OUTPUTS		
MODEL	STANDARD	LOOP-THRU
7220	1	0
7222	4	0
7224	8	0
7226	12	0
7225, 7227	0	1
7221, 7223	0	0

BASEBAND OUTPUTS		
MODEL	RGB	AUDIO
7221, 7225	1	2
7223, 7227	4	8
7220	0	0
7222, 7224, 7226	1 input loop-thru	2 input loop-thru



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	15 to 60 kHz

V Sync Frequency Range	30 to 85 Hz

RGB Format Supported	RGB with separate H and V

RGBHV Video Connectors	HD-15 (F)



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SIGNAL	CHANNELS	DIRECTION
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OPTICAL OUTPUTS

MODEL	STANDARD	LOOP-THRU
7220	1	0
7222	4	0
7224	8	0
7226	12	0
7225, 7227	0	1
7221, 7223	0	0

BASEBAND OUTPUTS

MODEL	RGB	AUDIO
7221, 7225	1	2
7223, 7227	4	8
7220	0	0
7222, 7224, 7226	1 input loop-thru	2 input loop-thru

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

Audio Connectors	3.5 mm plug

Maximum Audio Level	+10 dBu

SNR (A-Weighted)	95 dB

Channel Phase Differential ..	±0.1°

Crosstalk	Min. 95 dB (1 kHz)

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

Rackmount Options	
7220, 7221	1 slot card for use in 6000A rack
7222, 7224, 7226	unit is 1 RU high
7223, 7225, 7227	none available

Approximate Weight	
7220, 7221	10 oz; 0.284 kg
7222, 7224, 7226	5.5 lbs; 2.6 kg
7223, 7225, 7227	1.2 lb; 0.55 kg

Optical Connectors	ST

Operating Wavelength	1310 nm

Operating Temp. Range ...	-20 to +60°C (7220/7221) -20 to +50°C (all others)

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Ordering Information:

Part Number	Description	Number of Fibers
7220-KIT-pp*	Complete Kit - contents listed below**	1
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	
101933	6 ft. HD-15M to HD-15M VGA type cable	
1206	6 ft. HD-15M to 5 x BNC-M RGBHV cable	
1214	6 ft. 3.5 mm plug to 3.5 mm plug stereo audio cable	
1213	6 ft. 3.5 mm plug to 2 x RCA-M stereo audio cable	
6340	ST-M to FCPC-F adapter for multimode fiber	
6350	ST-M to FCPC-F adapter for single mode fiber	

****7220-KIT-pp includes:**

Qty	Part Number (described above)
1	7220-B7S
1	7221-B7S
2	PDPS-1-pp (specify line cord)
2	101933
1	1206
2	1214
1	1213
1	122960: 250 m (820 ft.) of plenum rated SM fiber with ST connectors and a pulling eye

***Power Supply and Line Cord Suffix Codes:**

pp: NA	N. America
AU	Australia
EU	Europe
JP	Japan
UK	United Kingdom

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7225, 7227	0	1
7221, 7223	0	0

BASEBAND OUTPUTS

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Operating Loss Budget and Maximum Usable Distance*:

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

MM = Multimode Fiber
SM = Single Mode Fiber

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

Warranty:

Pure Digital Fiberlink transmission systems are backed by a three-year limited warranty on parts and labor and a 30-day satisfaction guarantee.*

*See website for terms and conditions.

