

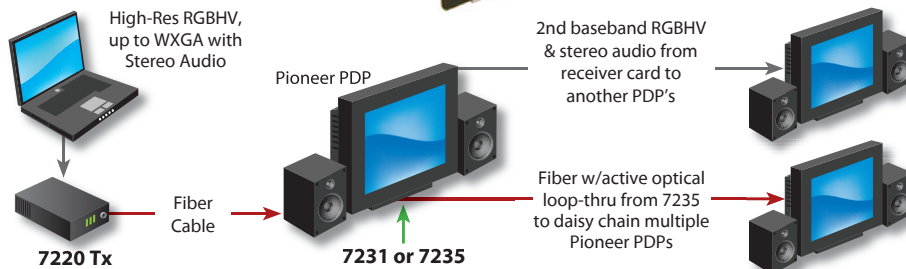


7230 Series

Expansion card for Pioneer Plasma Display Panels (PDPs) directly receives high-res RGB and stereo audio over one fiber from any 7220 Series transmitter

Ideal Applications:

Digital Signage, Training Rooms, Board Rooms,



Signal	Channels	Direction
RGB Audio	1 2	→ →
Optical Outputs		
7231	<i>Standard</i> 0	<i>Loop-Thru</i> 0
7235	0	1
Baseband Outputs		
7231	<i>Direct to Plasma</i> 1	<i>External</i> 1
7235	1	1

Features

Plug-in expansion card for Pioneer Display Panels (PDPs) receives high-res RGB and stereo audio over one single mode or multimode fiber.

Receives signals from any transmitting unit within the Pure Digital Fiberlink 7220 Series. Kit version available with transmitter unit. See ordering information.

Supports VGA, SVGA, XGA and WXGA (640 x 480 up to 1366 x 768), and HDTV resolutions of 480p, 720p and 1080i (RGBHV format only).

Compatible with all 43" and 50" fourth-generation Pioneer PDPs; see reverse side for listing of models.

Uses all digital processing and transmission for crystal clear signals and no color pixel skewing.

External baseband output provides input for second local PDP or other device.

7235 Model offers active optical loop-thru for transmission over fiber to additional PDP receiver card or 7220 Series receiver. Drop-and-repeat configuration can be extended indefinitely.

Ordering Information

Part Number	Description	Fiber Cores
7231-P7S*	Pioneer PDP card - receive only	1
7235-P7S*	Pioneer PDP card - receive w/ optical loop-thru	1
7231-KIT-pp	Point-to-Point Kit; see chart below for contents	
7235-KIT-pp	Drop-and-Repeat Kit; see chart below for contents	
101933	6 ft. HD-15M to HD-15M VGA type cable	
1206	6 ft. HD-15M to 5 x BNC-M RGBHV 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	

Kit Contents Description	P/N	Qty. in	
		7231-KIT	7235-KIT
HD-15M to HD-15M cable	101933	2	3
HD-15M to 5 x BNC-M cable	1206	1	1
3.5 mm to 2 x RCA-M audio cable	1213	2	2
3.5 mm to 3.5 mm audio cable	1214	1	2
250m SM plenum fiber w/ST connectors	123461	1	2
RGBHV & Stereo Audio Transmitter Box	7220-B7S	1	1
Pioneer PDP card - receive only	7231-P7S	1	0
Pioneer PDP card - with loop-thru	7235-P7S	0	1
RGBHV & Stereo Audio Receiver Box	7221-B7S	0	1
Power Supply (for 7220 & 7221 units)	PDPS-1-pp	1	2

* Receiver cards can only receive an optical signal from a transmitting model within the 7220 Series or from the optical output of a 7235 receiver card. Refer to the 7220 Series data sheet for more information.

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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Video Specifications

Number of Video Channels	1 RGBHV
Number of Baseband Video Outputs	2; one provides input for plasma; the other is external
RGB Processing	24 bits, no compression or scaling
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	2
Number of Baseband Audio Outputs	4; two provide stereo input for plasma; the other two are external
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Bits-per-Sample/Sampling Rate	24 bits; 54 kHz
Maximum Audio Level	+10 dBu
SNR (A-Weighted)	95 dB
THD+N	0.005%, 20 Hz - 20 kHz
Channel Phase Differential	±0.1°
Crosstalk	Min. 95 dB (1 kHz)
Input Impedance	>24 k Ohms
Output Impedance	< 1 Ohm
Audio to Video Diff. Delay (skew)	<300 uSec

General Specifications

LED Indicators	Power, Video and Audio Optical Transmit on 7235 only	
Operating Temperature Range	Same as Pioneer PDP	
Optical Connectors	ST	
Operating Wavelength	1310 nm	
Physical Size	11.8 W x 1.1 H x 5.4 L (inches) 301 W x 28 H x 137 L (mm)	
Weight	approx. 10 oz.; 0.284 kg	
Compatible with Pioneer PDP Models*	PDP-504CMX (50") PDP-50MXE1 (50") PDP-504CMX-S (50") PDP-50MX1-S (50")	PDP-43MXE1 (43") PDP-434CMX (43") PDP-43MXE1-S (43")

*List includes current PDP models as of May, 2005. Additional models may be added by Pioneer.



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.

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