

Hear Technologies PRODO4U Hear Back PRO Four Pack Overlay Upgrade

Mixer Aux Input		
Line Input Configuration/Impedance:	1/8" Stereo, unbalanced, 10K ohms typical	
Line Input Level:	0 dBu optimal, +18 dBu max	
Mic Input Configuration/Impedance:	XLR Mono, balanced, 150 ohms typical, 150 Hz high pass	
Mic Input Level:	-42 dBu optimal, -30 dBu max	
Mixer Headphone Power		
Load Impedance:	THD less than 0.01%*	THD less than 0.1%
8 Ohms:	1.2 W*	1.5 W
*THD AT 8 Ohms = 0.015% typical		
16 Ohms:	1.6 W	1.8 W
25 Ohms:	2.0 W	2.2 W
32 Ohms:	1.8 W	2.0 W
50 Ohms:	1.5 W	1.6 W
100 Ohms:	1.1 W	1.2 W
200 Ohms:	500 mW	650 mW
600 Ohms:	220 mW	250 mW
IMD:	Typically Less than 0.03%	
Mixer Line Output		
Freq Response:	20 Hz to 20 KHz, +/-0.15 dB	
THD+N:	0.004% typical at 1 kHz, +15 dBu	
0.008% typical, 20 Hz - 20 kHz, +4 dBu		
IMD:	0.02% typical at +4 dBu, 60 Hz / 7 kHz	
Crosstalk:	Less than -93 dB @ 1 kHz	
Propagation Delay:		
- Analog Input to Analog Output:	0.248 mSec @ 192 kHz sample rate	
- Digital Input to Analog Output:	0.092 mSec @ 192 kHz sample rate	
- Digital Input to Digital Output:	0.0452 mSec @ 192 kHz sample rate	
- Audio over Ethernet Protocol (HBUS):	0.000592 mSec	
System Noise Performance		
Noise, A-Weighted:	-93 dBu @ 192 kHz sample rate	
Dynamic Range:	117 dB typical	
System I/O		
Hub Line In, Analog:	8 balanced inputs on a DB-25 female (DA-88 pinout) per Analog Card	
Hub Maximum Input Level, Analog:	+8 dBu with analog card pad jumpers populated, +18 dBu with jumpers removed (up to +38dBu upon special request)	
Hub HBus In, Out:	8-pin RJ45 jack (standard Ethernet pinout)	
Hub USB Port:	USB 2.0 (for firmware updates and editing configuration settings)	
Hub Card Slots (4x):	Each slot can accept an analog or digital input card, output card, or 8 port Mixer network card	
Mixer to Hub Connection:	8-pin RJ45 jack (8x Mixer connections per network card)	
Mixer Headphone Out:	1x TRS 1/4" and 1x TRS 1/8" unbalanced stereo	
Mixer Line Out:	2x TRS 1/4" balanced (left/mono and right)	
Mixer Max Output Level, Analog:	+24 dBu (mixed output)	
Mixer Aux Input:	1x TRS 1/8" unbalanced stereo and 1x XLR balanced mono (with 15 volts phantom power)	
Mixer Card Slot:	For future digital or analog input/output expansion capabilities or side-car add-on	
Physical, Mixer		
Size:	9.5" (241 mm) H x 5.95" (152 mm) W x 2.71" (68.8 mm) D	
Unit Weight:	1.6 lb. (0.72 kg)	
Mounting:	Standard mic stand (5/8" 27 threads per inch) or desk mounted	

Physical, Hub

Size:	1.75" (44.5 mm) H x 19" (483 mm) W x 8.5" (216 mm) D
Unit Weight:	6.3 lb. (2.8 kg)
Mounting:	Standard rack mount, 1 RU
Power	
Hub Power Requirements:	48VDC, 150 Watts (each external power supply powers up to 16 Mixers)**
Mixer Power Requirements:	Power over Ethernet (PoE) 36-52 volts DC, 15 Watts max provided by Hub through Cat5e/6 network cabling
External Power Supply Requirements:	Input Voltage: 90VAC to 264VAC 50/60 Hz

Cabling, Mixers and HBUS

CAT6*** cables used for Mixers or for HBUS can be run up to 500 feet in ideal conditions (one piece of solid conductor CAT6 with no breaks or couplings). The more breaks/connections/couplings in a cable run, the more limited this distance will be. Poor quality cabling will also limit the maximum distance.

Note: 0 dBu = 0.775 Vrms. Specifications and features subject to change without notice.

**Hub is capable of powering up to 32 Mixers with an additional power supply.

***Cable complying with the National authorities (cable with an outer jacket or sleeving rated VW-1 or better).