

Electronics

Ultra Linear High Performance DSP Controllers

Audio-Performance P214D & P216D Digital Controllers

The P241D and P216D are 1u stand-alone digital audio signal processors for professional loudspeaker systems. Processing includes crossover filtering, equalisation, delay and limiting. Exceptional sonic quality is assured by careful selection of critical components, minimum signal path and expert DSP algorithm design. Comprehensive remote control and monitoring is made easy using the PodWare software application. Optional networking allows a system of devices to be controlled and monitored centrally.

The P214D is a two inputs, four outputs processor and the P216D is a two inputs, six outputs and are fully remote controllable with standard RS232 or could be networked with a RJ45 connector upon Obcom protocol.

The P214D and P216D front panel integrate user-friendly controls and intuitive graphical display. It just couldn't be simpler.

The incredibly easy to use "Podware" application allows user to simply create personal settings for their particular application as well as to monitor a complete system. For more information upon "Podware", please visit Audio Performance website.

The Audio Performance audio signal processors offers the possibility to store 45 complete sets of preset. A library of factory presets that cannot be overwritten are permanently stored. User could start from a factory preset to make his own presets library or even start a totally new one.

"Podware" P214D and P216D control, "MonIcon", display every information needed for complete monitoring control at a glance. Thus, it offers the possibility to access every preset parameters with just one click.

IDEAL FOR

2 and 3 Way, Stereo
 4 and 6 Way, Mono
 System Controller

Remote Controlled
 Sound System

Audio Performance
 Loudspeaker Systems



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P214D & P216D Specifications

GENERAL

Inputs.....	2
Input Impedance.....	> 10k Ohm Electronically balanced
Maximum Input level.....	+20dBu
Outputs.....	four [AP 214D] or six [AP 216D]
Output Impedance.....	<100 Ohm, ground balanced
Maximum Output Level.....	+20dBu into 600ohm load
Sample Rate.....	96kHz
Bit Depth.....	24 bit
Frequency Response.....	10Hz to 40kHz, +/- 3dB (filters disabled) - 20Hz to 20kHz, +/- 0.5dB (filters disabled)
THD.....	<0.01%, (+10dBu, 20Hz to 20kHz, 30kHz bandwidth)
Dynamic Range.....	>112dB (A weighted, 22kHz bandwidth) - >109dB (un-weighted, 22kHz bandwidth)
Serial Comms Data.....	38.4kbaud, format: 8 data, 1 stop, no parity

PROCESSING

Gain.....	+20dB to -80dB and mute, 0.2dB steps
Output Ch. Source.....	Input A, Input B and SUM
HP filter frequency.....	Off, 10Hz to 25.4kHz, 1/36 octave steps
LP filter frequency.....	Off, 10Hz to 25.4kHz, 1/36 octave steps
LP / HP filter type.....	12, 18 & 24dB/octave Bessel and Butterworth - 12, 24 and 48dB/octave Linkwitz Riley 4th or 8th order Hardman
Delay.....	Input 400us, output 80us
Limiter.....	High performance limiter, adjustable threshold in 0.2dB steps, automatic time constants
EQ frequency.....	10Hz to 25kHz, 1/36 octave steps
EQ gain.....	+15dB to -15dB, 0.2dB steps
EQ width.....	5.0 to 0.1 octaves bandwidth, 1/36 octave steps

CONNECTORS

Audio inputs.....	3 pin female XLR
Audio outputs.....	3 pin male XLR
Serial comms.....	Future option
Network comms.....	Future option
Mains.....	3 pin IEC
Mains Power.....	Universal switch-mode PSU, 85v to 250v AC, 50 / 60Hz
Consumption.....	< 25watts
Dimensions.....	44mm (H), 482mm (W), 254mm (D)
Weight	2.7 kg net

Front Panel

