



4 In - 8 Out Speaker Management System

DPA480P is a cost-effective 4-IN/8-OUT digital speaker management system. Designed to be catered for any crossover configuration, it provides the suitable processing and control for live application use. It offers 4 analog inputs, and 8 analog outputs, managed by a powerful MARANI M716 DSP Engine, in addition to 24 Bit AD/DA Converters. Each input channel provides a choice of EQ with a 30-band Parametric Filters, gain control, noise gate function, RMS compressor, and configurable delay. Each output offers up to 7-band of parametric equalization in to the crossover filters which themselves provide slopes from 6dB/Octave up to 48dB/Octave. Each output path also features peak limiter, HP/LP Filters, and driver alignment delay. The DPA480P supports a full matrix mixing mode where inputs may be routed/mixed in any ratio to any output. For remote configuration and control the DPA480P can be connected via USB or RS485 connections. The control remote PC software allows simultaneous control up to 32 units, setting all parameters and showing real time levels.



Features

Outstanding Performance

Excellent sonic performance with 24bit high end converters coupled with 48kHz sample rate 4 inputs, 8 outputs with full matrix mixing

Top-grade DSP Engine

30 band parametric equalization per input channel

7 band parametric equalization per output channel

Each band can be switched to Bell, Hi/Lo-Shelving, HP/LP, Band Pass, Notch and All Pass filters

Crossover filters with slopes from 6dB/Octave up to 48dB/ Octave including Butterworth, Bessel, Linkwitz-Riley

Each output features a dynamic range controller composed of a Peak Limiter

Adjustable Delay time up to 420.998 ms for every input channel , up to 128.998 ms for every output channel

Direct PC/Network Connection

Front panel USB connector for direct PC communications Rs485 connection for system setup, monitoring and control via fully manageable remote PC software

Control

Front panel interactive LCD display for local access and configuration

Front panel 7-LED level meter indicators per channel

Simultaneous control up to 32 units via PC software

Up to 24 storable user presets

Security Lockout

- Applications
- · Auditoriums
- Convention Centers
- Houses of WorshipStadiums and Arenas
- Theaters
- Touring Musicians
- Performing Art Centers
 - Stage Monitoring System digital



Designed in Italy Assembled in China

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Audio

Analog Input	
Analog Output	8 x XLR electronically balanced
Minimun Load	150 ohm
THD+N	0.001% at 1kHz OdBu
S/N	>106dBA
Frequency Response	20Hz - 20kHz; -0.5dBu at 20Hz and 20kHz
AD & DA Converters	Cs42528 24bit - 48kHz

DSP & Processing

DSP Engine	
DSP Resolution	
Parametric Equalization	96 bit precision on intermediate processing data
	7 filters per output
Filter Type	Bell, Hi/Lo-Shelving, HP/LP, Band Pass, Notch and All Pass Filters selectable
Filter Gain	From -15dBu up to +15dBu by 0.5dBu resolution steps
Center Frequency	
Filter Q/BW	
Input&Output Level	······································
Crossover Section HPF/LPF	Butterworth 6/12/18/24/36/48 dB per octave
	Bessel 12/24 dB per octave
Input Noise Gate	Linkwitz-Riley 12/24/36/48 dB per octave
Input Noise Gale	
Input RMS Compressor	Attack time from 1ms up to 1000ms;Release time from 10ms up to 1000ms Threshold from -14dBu up to +16dBu and Byp
	Ratio 2:1 \sim 32:1; Knee: 0% \sim 100%; Makeup from -12dB to +12dB
	Attack time from 5ms up to 200ms;Release time from 0.1 sec up to 3 sec
Output Peak Limiter	
	Attack time from 1ms up to 900ms;Release time from 0.1 sec up to 5 sec
Input&Output Polarity	
Input&Output Mute	ON / OFF
Delay	420.998 ms per input channel
	128.998 ms per output channel

General

Device Presets Front Panel	24 User Presets 2x24 character LCD display with LED backlight 7-LED meter per input channel -20dBu to +15dBu, clip 7-LED meter per output channel -15dBu to +15dBu, clip and limiter mode Blue LED (Edit) per channel Red LED (Mute) per channel NAV/PM1 Rotary encoder push button switch PM2, PM3, ENTER, ESC, UTILITY push button switches EDIT/MUTE push button per channel USB type B connector
Rear Panel	4 x XLR female connector (Input) 8 x XLR male connector (Output)
	2 x Rs485 Connector 1 x Ground-lift toggle switch
	IEC C13 16A connector; Power on/off switch
Mains AC	
	19"x 1.75"x 9" (483x44x229mm) 1RU
Weight, Net/Shipping	7.71 lbs (3.5 Kg) / 8.82 lb (4 Kg)

Specifications subject to change without notice

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