

DIGITAL SPEAKER PROCESSOR

DP-SP3 (CE/CE-AU/CE-GB)

The DP-SP3 is a 1U rack mountable Digital speaker processor having 2 inputs and 6 outputs.

It features digital signal processing functions such as Equalizer, Crossover, Matrix, Compressor, and Delay.

Other functions include input PAD, analog output attenuator, output MUTE, EQ characteristic library for TOA speakers, and contact input terminals. When connected to a LAN, settings and operations of the DP-SP3 can be performed on a PC with the supplied DP-SP3 PC Software installed.

It can be mounted in an EIA component rack (1U size).

■ SPECIFICATIONS

* 0 dB = 0.775 V

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Version	CE/CE-GB	CE-AU	
Power Source	220-240 V AC, 50/60 Hz	220-240 V AC, 50 Hz	
Power Consumption	25 W		
Frequency Response	20 Hz - 20 kHz, ±1 dB		
Sampling Frequency	96 kHz		
Dynamic Range	110 dB or more		
Distortion	0.03 % or less, 1 kHz, +4 dB* input/output, 20 Hz - 20 kHz BPF		
Crosstalk	-80 dB or less, 1 kHz		
Input	2 channels, +4 dB* (max. +24 dB*), 10 kΩ, electronically—balanced,		
	removable terminal block (3P)		
Output	6 channels, +4 dB* (max. +24 dB*), applicable load 600 Ω or more,		
	electronically—balanced, removable terminal block (3P)		
AD Converter	24 bits		
DA Converter	24 bits		
Preset Memory	16		
Signal Processing Sect	ion		
Equalizer/Filter	Parametric equalizer: 20 Hz — 20 kHz	, ±15 dB, Q: 0.267 - 69.249	
	Filter:		
	High-pass filter: 20 Hz - 20 kHz, 6 dB/oct, 12 dB/oct		
	Low-pass filter: 20 Hz - 20 kHz, 6 dB/oct, 12 dB/oct		
	Notch filter: 20 Hz - 20 kHz, Q: 8.651 - 69.249		
	All-pass filter: 20 Hz - 20 kHz, Q: 0.267 - 69.249		
	High-shelving filter: 5 - 20 kHz, ±15 dB		
	Low-shelving filter: 20 - 500 Hz, ±15 dB		
	Horn equalizer: 20 kHz, 0 - 18 dB in 0.5 dB steps		
Crossover	2 ways, 3 ways, 4 ways		
	Crossover filter: 20 Hz - 20 kHz, 6 dB/oct, 12 dB/oct, 18 dB/oct, 24 dB/oct,		
	-15 to +12 dB, polarity switchable		
	Delay: 0 — 170.656 ms in 0.01 ms st	eps	
Compressor	Threshold: -20 to $+20$ dB* in 1 dB s		
	Ratio: 1:1, 1.1:1, 1.2:1, 1.3:1, 1.5:1, 1.7:1, 2:1, 2.3:1, 2.6:1, 3:1, 4:1, 7:1, 8:1, 10:1,		
	12:1, 20:1, ∞:1		
	Attack time: 0.2 ms - 5 s		
	Release time: 10 ms — 5 s		
Delay	Delay time: 0 - 682.656 ms in 0.01 ms steps		
Matrix	2 × 6		
Crosspoint Gain	$-\infty$ to 0 dB in 1 dB steps		
Function	Input PAD (-14 dB) control, analog of	utput attenuator	
	(-∞ to 0 dB in 1 dB steps) control, EQ characteristic library for TOA speakers, input/output level indicator (4-point LED indicator), output MUTE switch ×6		
0 1 1	input/output level indicator (4-point	LED indicator), output MUTE switch X6	
Control	T. T		
Contact input	4 channels, open voltage: 5 V DC, sho	ort—circuit current: 5 mA,	
NI I I	removable terminal block (5 P),		
	control function: preset memory select	tion, volume control, and mute	
Network	Network I/F: 1 channel of 10BASE-T/		
	RJ45 connector, connecti	on via switching hub	
	Network protocol: TCP/IP	table a fortable of a state of the LANI	
	Connection cable: Shielded Cat. 5 or h		
	(Cat. 5—STP or bett		
	I Midximum cable length: 100 m (109.56	yd) (between DP-SP3 and switching hub)	
Operating Tomporature	0 °C to ±40 °C (30 °E to 104 °E)		
Operating Temperature Operating Humidity	0 °C to +40 °C (32 °F to 104 °F) 90 %RH (no condensation)		
- Operating Humidity			
Dimensions	Panel: Aluminum, hairline, black, Case: Surface—treated steel plate 482 (W) × 44 (H) × 289 (D) mm (18.98" × 1.73" × 11.38")		
Weight			
	3.1 kg (6.83 lb)	1 removable terminal plus (3D) VS	
Accessories	Power supply cord ((2 m (6.56 ft)) ×1, removable terminal plug (3P) ×8, removable terminal plug (5P) ×1, rack mounting screw ×4,		
	CD—ROM (containing setup software) ×1		
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Personal Computer Requirements

Requirements	CPU: 1 GHz or faster 32-bit (x86) or 64-bit (x64) processor	
	Memory: 1 GB or more RAM (for 32-bit CPU) or 2 GB or more RAM (for 64-bit CPU) Display: 1024 × 768 resolution or higher	
	Free Hard Disk Space: 16 MB or more,	
	however 600 MB or more is required for the 32-bit version or	
	1.5 GB or more for the 64-bit version when	
	".NET Framework" is not yet installed	
	Optical Drive: CD-ROM drive or CD/DVD Multi-drive	
	Network Adapter: 10BASE—T or faster connection	
OS	Windows 10 Pro (32/64-bit edition)	
	Windows 11 Pro (64-bit edition)	
Required Componer	nt NET Framework 4 Client Profile	

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APPFARANCE

