

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).

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Article number:DP-SP3 CE

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### Specifications

Power source	220 - 240 V AC, 50 / 60 Hz
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Frequency response	20 Hz - 20 kHz ( $\pm 1$ dB)
Dynamic range	Over 110 dB
Frequency response	20 Hz - 20 kHz ( $\pm 1$ dB)
Power consumption	25 W
Distortion	< 0.03 % (at 1 kHz)
Power consumption	25 W
Crosstalk	-80 dB
Inputs	2 channels, +4 dBu (Max. +24 dBu), 10 k $\Omega$ , electronically-balanced, removable terminal block (3P) Contact inputs: 4 channels, open voltage: 5 V DC, short-circuit current: 5 mA, removable terminal block (5P), control function: preset memory selection, volume control, and mute
Outputs	6 channels, +4 dBu (Max. +24 dBu), applicable load 600 $\Omega$ or more, electronically-balanced, removable terminal block (3P)
A/D, D/A Converter	24 bits
LAN	Network I/F: 1 channel of 10BASE-T/100 BASE-TX (auto-negotiation), RJ45 connector, connection via switching hub Network protocol: TCP/IP, Connection cable: Shielded Cat. 5 or higher twisted pair cable for LAN (Cat. 5-STP or better) Maximum cable length: 100 m (between DP-SP3 and switching hub)
Sampling frequency	96 kHz
Distortion	< 0.03 % (at 1 kHz)
Equalizer / Filter	Parametric Equalizer: 20 Hz – 20 kHz, $\pm 15$ 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: 20 – 20 kHz, $\pm 15$ dB, Low-shelving filter: 20 – 500 Hz, $\pm 15$ dB, Horn equalizer: 20 kHz, 0 – 18 dB in 0.5 dB steps
Compressor	Threshold: -20 to +20 dBu in 1 dB steps 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, $\infty$ :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 x 6
Other features	Input PAD (-14dB) control, analog output attenuator ( $-\infty$ 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 x 6
Finish	Aluminium, hairline, black,
Operating humidity	90 % RH (no condensation)
Operating temperature	0 °C to +40 °C



# DP-SP3

DIGITAL SPEAKER PROCESSOR

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Appearance