



DIGITAL SPEAKER PROCESSOR

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

DESCRIPTION

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

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 k Ω , 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 Section		
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 steps	
Compressor	Threshold: -20 to +20 dB* 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, ∞ :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	
Crosspoint Gain	- ∞ to 0 dB in 1 dB steps	
Function	Input PAD (-14 dB) control, analog output 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 x6	
Control		
Contact input	4 channels, open voltage: 5 V DC, short-circuit current: 5 mA, removable terminal block (5 P), control function: preset memory selection, volume control, and mute	
Network	Network I/F: 1 channel of 10BASE-T/100BASE-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 (109.36 yd) (between DP-SP3 and switching hub)	
Operating Temperature	0 $^{\circ}$ C to +40 $^{\circ}$ C (32 $^{\circ}$ F to 104 $^{\circ}$ F)	
Operating Humidity	90 %RH (no condensation)	
Finish	Panel: Aluminum, hairline, black, Case: Surface-treated steel plate	
Dimensions	482 (W) x 44 (H) x 289 (D) mm (18.98" x 1.73" x 11.38")	
Weight	3.1 kg (6.83 lb)	
Accessories	Power supply cord ((2 m (6.56 ft)) x1, Removable terminal plug (3P) x8, Removable terminal plug (5P) x1, Rack mounting screw x4	



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SPECIFICATIONS

Personal Computer Requirements

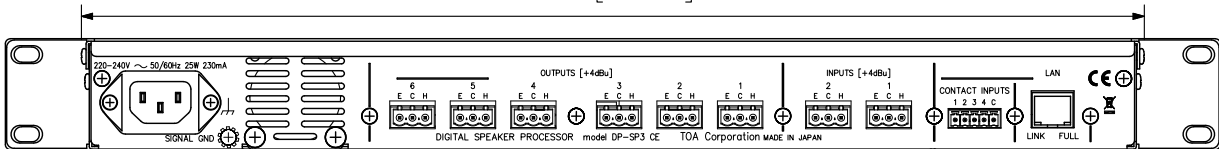
Requirements	CPU: 1 GHz or faster 32-bit (x86) or 64-bit (x64) processor Memory: 1 GB or more RAM (for 32-bit CPU) or 2 GB or more RAM (for 64-bit CPU) Display: 1024 × 768 resolution or higher Free Hard Disk Space: 16 MB or more, however 600 MB or more is required for the 32-bit version or 1.5 GB or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

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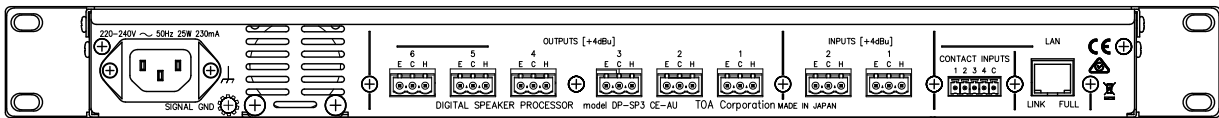
APPEARANCE

Rear View

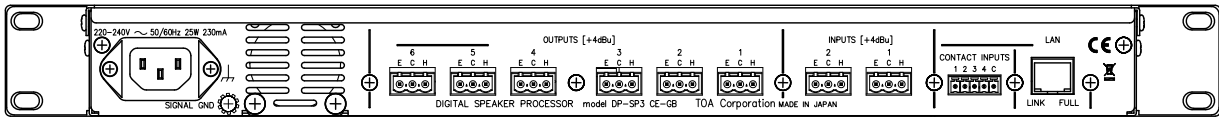
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CE version



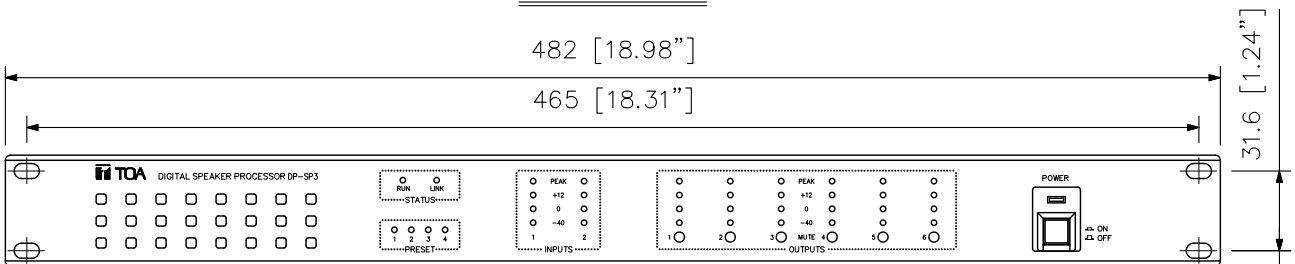
CE-AU version



CE-GB version

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Front View

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Side View

Version	CE	CE-AU	CE-GB
AC plug			

UNIT:mm SCALE:1/3