

## 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 $\Omega$ or more,	
33.45	electronically—balanced, removable terminal block (3P)	
AD Converter	24 bits	
DA Converter	24 bits	
Preset Memory	16	
Signal Processing Secti		
Equalizer/Filter	Parametric equalizer: 20 Hz — 20 kHz.	+15 dR 0: 0.267 - 60.240
Lquuiizer / i iitei	Filter:	, ±13 dD, Q. 0.207 - 03.243
	1 11 2 2 1 2 2 1 2 2 1 2 2 2 2 2 2 2 2	
	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 ste	eps
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	$-\infty$ to 0 dB in 1 dB steps	
Function	Input PAD (-14 dB) control, analog ou	
	$(-\infty$ 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 ×6
Control		
Contact input	4 channels, open voltage: 5 V DC, sho	ort-circuit current: 5 mA
	The charmers, open voltage. 5 v be, she	ort—circuit current. 5 mA,
	removable terminal block (5 P),	ort—circuit current. 5 mA,
	removable terminal block (5 P),	
Network		ion, volume control, and mute
Network	removable terminal block (5 P), control function: preset memory select Network I/F: 1 channel of 10BASE-T/	ion, volume control, and mute 100BASE—TX (auto—negotiation)
Network	removable terminal block (5 P), control function: preset memory select Network I/F: 1 channel of 10BASE-T/ RJ45 connector, connecti	ion, volume control, and mute 100BASE—TX (auto—negotiation)
Network	removable terminal block (5 P), control function: preset memory select  Network I/F: 1 channel of 10BASE-T/ RJ45 connector, connecti Network protocol: TCP/IP	ion, volume control, and mute 100BASE—TX (auto—negotiation) on via switching hub
Network	removable terminal block (5 P), control function: preset memory select  Network I/F: 1 channel of 10BASE-T/ RJ45 connector, connecti  Network protocol: TCP/IP Connection cable: Shielded Cat. 5 or h	ion, volume control, and mute 100BASE—TX (auto—negotiation) on via switching hub iigher twisted pair cable for LAN
Network	removable terminal block (5 P), control function: preset memory select  Network I/F: 1 channel of 10BASE-T/ RJ45 connector, connecti  Network protocol: TCP/IP Connection cable: Shielded Cat. 5 or h (Cat. 5-STP or bette	ion, volume control, and mute 100BASE—TX (auto—negotiation) on via switching hub igher twisted pair cable for LAN er)
Network	removable terminal block (5 P), control function: preset memory select  Network I/F: 1 channel of 10BASE-T/ RJ45 connector, connecti  Network protocol: TCP/IP Connection cable: Shielded Cat. 5 or h (Cat. 5-STP or bette	ion, volume control, and mute 100BASE—TX (auto—negotiation) on via switching hub ligher twisted pair cable for LAN
	removable terminal block (5 P), control function: preset memory select Network I/F: 1 channel of 10BASE-T/ RJ45 connector, connecti Network protocol: TCP/IP Connection cable: Shielded Cat. 5 or h (Cat. 5-STP or bette Maximum cable length: 100 m (109.36	ion, volume control, and mute 100BASE—TX (auto—negotiation) on via switching hub igher twisted pair cable for LAN er)
Operating Temperature	removable terminal block (5 P), control function: preset memory select  Network I/F: 1 channel of 10BASE-T/ RJ45 connector, connecti  Network protocol: TCP/IP Connection cable: Shielded Cat. 5 or h (Cat. 5-STP or bette  Maximum cable length: 100 m (109.36)	ion, volume control, and mute 100BASE—TX (auto—negotiation) on via switching hub igher twisted pair cable for LAN er)
Operating Temperature Operating Humidity	removable terminal block (5 P), control function: preset memory select  Network I/F: 1 channel of 10BASE-T/ RJ45 connector, connecti  Network protocol: TCP/IP Connection cable: Shielded Cat. 5 or h (Cat. 5-STP or bette  Maximum cable length: 100 m (109.36)  0 °C to +40 °C (32 °F to 104 °F) 90 %RH (no condensation)	ion, volume control, and mute 100BASE—TX (auto—negotiation) on via switching hub higher twisted pair cable for LAN er) yd) (between DP—SP3 and switching hub)
Operating Temperature Operating Humidity Finish	removable terminal block (5 P), control function: preset memory select  Network I/F: 1 channel of 10BASE-T/ RJ45 connector, connecti  Network protocol: TCP/IP Connection cable: Shielded Cat. 5 or h (Cat. 5-STP or bette  Maximum cable length: 100 m (109.36)  0 °C to +40 °C (32 °F to 104 °F) 90 %RH (no condensation)  Panel: Aluminum, hairline, black, Case:	ion, volume control, and mute  100BASE—TX (auto—negotiation) on via switching hub  igher twisted pair cable for LAN er) yd) (between DP—SP3 and switching hub)  Surface—treated steel plate
Operating Temperature Operating Humidity Finish Dimensions	removable terminal block (5 P), control function: preset memory select  Network I/F: 1 channel of 10BASE-T/ RJ45 connector, connecti  Network protocol: TCP/IP Connection cable: Shielded Cat. 5 or h (Cat. 5-STP or bette Maximum cable length: 100 m (109.36)  0 °C to +40 °C (32 °F to 104 °F) 90 %RH (no condensation)  Panel: Aluminum, hairline, black, Case: 482 (W) × 44 (H) × 289 (D) mm (18)	ion, volume control, and mute  100BASE—TX (auto—negotiation) on via switching hub  igher twisted pair cable for LAN er) yd) (between DP—SP3 and switching hub)  Surface—treated steel plate
Operating Temperature Operating Humidity Finish Dimensions Weight	removable terminal block (5 P), control function: preset memory select  Network I/F: 1 channel of 10BASE-T/ RJ45 connector, connecti  Network protocol: TCP/IP Connection cable: Shielded Cat. 5 or h (Cat. 5-STP or bette Maximum cable length: 100 m (109.36)  0 °C to +40 °C (32 °F to 104 °F) 90 %RH (no condensation)  Panel: Aluminum, hairline, black, Case: 482 (W) × 44 (H) × 289 (D) mm (18) 3.1 kg (6.83 lb)	ion, volume control, and mute  100BASE—TX (auto—negotiation) on via switching hub  igher twisted pair cable for LAN er) yd) (between DP—SP3 and switching hub)  Surface—treated steel plate 1.98" × 1.73" × 11.38")
Operating Temperature Operating Humidity Finish Dimensions	removable terminal block (5 P), control function: preset memory select  Network I/F: 1 channel of 10BASE-T/ RJ45 connector, connecti  Network protocol: TCP/IP Connection cable: Shielded Cat. 5 or h (Cat. 5-STP or bette Maximum cable length: 100 m (109.36)  0 °C to +40 °C (32 °F to 104 °F) 90 %RH (no condensation)  Panel: Aluminum, hairline, black, Case: 482 (W) × 44 (H) × 289 (D) mm (18)	ion, volume control, and mute  100BASE—TX (auto—negotiation) on via switching hub  sigher twisted pair cable for LAN er) yd) (between DP—SP3 and switching hub)  Surface—treated steel plate .98" × 1.73" × 11.38")  1, removable terminal plug (3P) ×8,



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### ■ SPECIFICATIONS

Personal Computer Requirements

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Requirements	CPU: Pentium 4, 1.0 GHz or faster	
	Memory: 1.0 GB or more	
	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	
	Network Adapter:10BASE-T or faster connection	
OS	Windows 7 (32/64-bit edition)	
	Windows 10 (32/64-bit edition)	
Required Component	.NET Framework 4 Client Profile	

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#### APPEARANCE

