
Digital Signal Processor

The digital audio device shall be available in hardware configurations of 2 inputs by 6 outputs with capabilities of driving 3 separate audio amplifiers individually. All the inputs and outputs are balanced analog signals accessible via removable terminal strip connectors with 24-bit analog to digital and digital to analog converters operating at a sample rate of 96 kHz. The device shall have a frequency Response of 20 Hz - 20 kHz, +/-1 dB.

Digital signal processing (DSP) functions shall be offering; parametric equalizer, high pass and low pass filters, horn equalization, crossover with 2, 3 and 4way options, compression and delay of 0 – 682.656ms, and 2 x 6 matrix.

The digital processor shall have 16 preset memories that can be recalled by remote function. The remote control function shall be accessed via 4 contact input terminals for memory recall, output volume control and output muting. Switching of preset DSP parameters patterns and matrix selection shall be available by Web browser via Ethernet.

Attenuating output volume by means of external analog device shall be possible. The digital processor shall include control software for PC operation and settings, access to 16 preset memories, built in library of manufacturers loudspeakers.

Network shall be available using RJ45 connection via switching hub.

Network I/F: 1 channel of 10BASE-T/100BASE-TX Auto-Negotiation utilizing network protocol TCP/IP. Connection cable shall be shielded Cat. 5 or higher twisted pair cable for LAN. Maximum cable length: 100 m (109.36 yd.) between digital signal processor and switching hub.

It shall use only one EIA component rack space and its dimensions shall be 482 (W) x 44 (H) x 289 (D) mm (18.98" x 1.73" x 11.38") Weight shall be 3.1 kg (6.83 lbs) and finished in black aluminium front panel with surface-treated steel plate case.

Manufacturer: TOA Corporation

Model: DP-SP3 CU