



The SBDP48A was designed to provide state-of-the-art signal processing while maintaining a simple and direct control interface. From the powerful DSP modules to the multiple control surfaces, these processors provide all the processing and control necessary for both fixed installation and live performance use. Additionally, the programmable software enables any user to quickly set up and use the processors to their full potential by streamlining the setup process and providing a menu-based setup procedure that includes system setup, configuration, and much more. These processors are based on the principle and philosophy of providing everything a user needs between the power amplifiers and the mixer.

## Features

- USB Connection for PC or RJ45 LAN Connector for Long Distance Control
- Communication Port Assignment
- Programmable PC Software Software
- Low-Shelving Equalizer, Hi-Shelving Equalizer:
- Lo-Cut filter, Hi-Cut filter, All-Pass filter:
- Compressor / Limiter 6 Digital Compressors / Limiters per Output

## Specifications

### Audio

**ANALOG INPUT:**  
4 X XLR ELECTRONICALLY BALANCED

**ANALOG OUTPUT:**  
8 X XLR ELECTRONICALLY BALANCED

**IMPEDANCE:**  
>10K OHMS

**MINIMUM LOAD:**  
600 OHM

**OUTPUT IMPEDANCE:**  
<60 OHMS

**DISTORTION:**  
0.02% AT 1kHz, +18dBm

**DYNAMIC RANGE:**  
>110dB 20Hz-20kHz

**FREQUENCY RESPONSE:**  
20Hz-20kHz;  
0.5dBu @ 20Hz AND 20kHz

### DSP Processing

**DSP PRESETS:**  
30 USER PRESETS

**DSP ENGINE:**  
32 BIT (DATA) x 96 BIT (COEFF.)

**DSP RESOLUTION:**  
32 BIT FOR FILTERING PROCESS  
96 BITS RESOLUTION

**PARAMETRIC EQUALIZATION:**  
6 BANDS PER OUTPUT, 8 BANDS PER INPUT

**FILTER TYPE:**  
Q VALUE / BAND WIDTH 0.4 TO 28.8 / 3 TO 0.05

**FILTER GAIN:**  
+15dB TO -30dB; STEP DISTANCE 0.1dB

**CENTER FREQUENCY:**  
SELECTABLE WITH A 1/36TH OF OCTAVE RESOLUTION STEPS FROM 20Hz UP TO 20kHz

**CROSSOVER SECTION HPF/LPF:**  
ONE FILTER PER OUTPUT  
SELECTABLE: LINK-RILET, BESSEL, BUTTERWORTH  
10Hz-16kHz ADJUSTABLE 1/36 OCT STEP DISTANCE TRANSITIONAL FREQUENCY (HIGH PASS)  
60Hz-22kHz ADJUSTABLE 1/36 OCT STEP DISTANCE TRANSITIONAL FREQUENCY (LOW PASS)  
±15dB GAIN, ADJUSTABLE STEP DISTANCE 0.1dB

**INTERNAL NOISE GENERATOR:**  
WHITE/PINK NOISE, LEVEL FROM -30dBu TO 0dBu

**LIMITER:**  
THRESHOLD FROM +20 dBu TO -10dBu  
START-UP TIME 0.3MS TO 90MS  
RELEASE TIME: START UP TIME 4, 8, 16, or 32 TIMES

**MAXIMUM DELAY:**  
650MS (ADJUSTABLE STEP DISTANCE 2.6µS)

## Specifications

### Controllers & Connectors

#### FRONT PANEL:

LCD DISPLAY WITH BLUE LED BACKLIGHT  
 3-LED METER PER INPUT CHANNEL -6dBu, 0dBu, +6dBu,  
 3-LED METER PER OUTPUT CHANNEL -6dBu, 0dBu, CLIP  
 YELLOW LED (EDIT) PER CHANNEL  
 RED LED (MUTE) PER CHANNEL  
 GREEN (SIGNAL) PER CHANNEL  
 YELLOW (LIMIT/PEAK) PER OUTPUT CHANNEL  
 MENU, ENTER, BACK, NEXT, ESC, BYPASS UTILITY PUSHBUTTON SWITCH  
 1,2,3 PARA PUSHBUTTON SWITCH  
 1,2,3 DEFAULT PROGRAM SHORTCUTS  
 EDIT/MUTE PUSHBUTTON PER CHANNEL  
 USB TYPE B CONNECTOR

#### REAR PANEL:

4 X XLR FEMALE CONNECTOR (INPUT)  
 8 X XLR MALE CONNECTOR (OUTPUT)  
 RJ45 LAN CONNECTOR  
 IEC C13 16A CONNECTOR  
 POWER ON/OFF SWITCH

#### MAIN AC:

90-240VAC (50/60HZ) - 40W

### Input / Output Section

#### INPUT SIGNAL:

4 X XLR FEMALE CONNECTOR

#### OUTPUT CONNECTORS:

8 X XLR MALE CONNECTOR

### Power Section

#### MAIN AC:

90-240VAC (50/60HZ) - 40W

### Standard Compliance

#### CE MARKING:

YES

#### ROHS:

YES

### Dimensions

#### WIDTH:

19 INCH / 483 mm

#### NET WEIGHT:

-- LB / -- KG

#### DEPTH:

9 INCH / 229 mm

#### HEIGHT:

1.75 INCH / 44 mm