

## OUTBOARD & PROCESSING

### XTA DP324 SiDD DIGITAL DYNAMICS PROCESSOR



#### XTA DP324 (SiDD) Digital Dynamics Processor

Superb audio quality - carefully optimised double precision signal processing coupled with a 40-bit internal data path ensures a dynamic range in excess of 110dB. The high sampling rate means minimal filtering providing exceptional sonic purity. A highly accurate 6 band parametric equaliser on each input, providing +15 to -30dB of gain at centre frequencies between 20Hz and 20kHz, with a wide range of Qs available between 0.4 to 128. All parameters feature fine resolution with 1/36 octave frequency steps, 0.1dB gain increments, and 100 Q settings. Any parametric section can also be set to operate as a high or low shelving filter. A fully featured compressor with two bands of sidechain equalisation, and featuring variable knee and look-ahead delay for absolute control.

#### Features:

- Inputs 2 electronically balanced [++] Impedance: > 10k ohms. CMRR 65dB 50Hz
- 10kHz. Outputs 4 electronically balanced [++] Source Imp 60ohms Min. Load 600ohm Max. Level +20dBm into 600 ohm Frequency Resp. + dB 20Hz-20kHz Dynamic Range >110dB 20Hz-20k unwt'd Distortion .02% @ 1kHz, +18dBm Maximum Delay 300 mS Min Step Size 2mS Input Gain +15dB in 0.1dB steps Output Gain -60dB
- +15dB in 0.1dB steps, and 'Off' Parametric Equalisation 6 per Channel Filter Gain +15dB to -30dB in 0.1dB steps. Frequency Range 20Hz
- 20kHz, 1/36 octave steps. (368positions) Filter Q / BW 0.4 to 128 / 2.5 to 0.008 (Sections switched to shelving response) Features:
- Low frequency 20Hz
- 1kHz High frequency 1kHz
- 20kHz Shelf gains 15dB in 0.1dB steps. High and Lowpass Filters, 1 of each per output. Freq. Range HPF 10Hz
- 16kHz 1 / 36 Oct.steps. Freq. Range LPF 35Hz
- 22kHz 1 / 36 Octave.steps.

## Responses

Bessel/Butterworth

12db/OctaveDynamics

Processing Dynamic EQ

module x 2

Gate/Expander x 2

Compressor x 2 Limiter

x 2 Additional

Processing Harmonics

Gener Display 2x24

character backlit LCD

Input meter 2 x 7 point, -

18dB to +18dB. Output

meter 2 x 7 point, -18dB

to +18dB. Gain

reduction & Threshold

metering for each

module. Connectors

Inputs 3 pin female XLR;

Outputs 3 pin male XLR.

MIDI In 5 pin

DIN;External 9 pin DEE

connector (RS232)

RS485 3 pin male XLR

(out) 3 pin male XLR (in)

Power 3 pin IEC Power

60 to 250V 15% @

50/60Hz. Consumption

20 watts. Weight 3.5kg.

Net (4.8kg. Shipping)

Size 1.75 inch(1U) x 19

inch x 11.8 inch (44 x

482 x 300mm) excluding

connectors. Options [++]

=Transformers

available. Optional

Interfaces AES/EBU

Digital Input/Output



Orbital Sound Ltd, 57 Acre Lane,  
Brixton, London, SW2 5TN,  
United Kingdom,

Tel: +44 207 501 6868

[hire@orbitalsound.com](mailto:hire@orbitalsound.com)

[www.orbitalsound.com](http://www.orbitalsound.com)