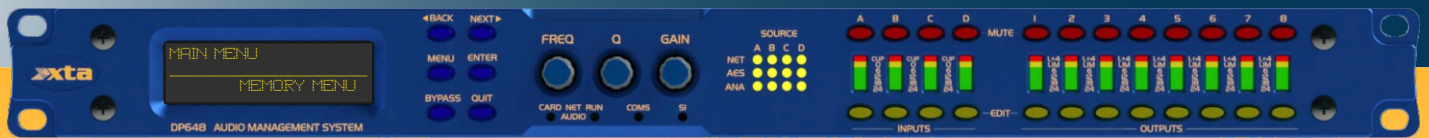# DP648 Audio System Processor

4 input 8 output System Processor

4 inputs patchable from 12 inputs sources
Analog / AES/EBU and optional Dante/AES67
Automatic Input failover

8 x Outputs : Analog / AES/EBU and optional Dante / AES67 card

Flexible Dynamic processor - FIR Filtering - Extensive Speaker Preset Library

PRELIMINARY

Comprehensive Audio System Processing

6 Series

Dante™

www.xta.co.uk

xta

DP648 Audio System Processor

Specifications

Inputs:
4 Processor input channels can be patched from up to 12 input sources :
4 analog inputs & 4 x AES/EBU inputs are provided on 4 x XLR connectors.
XLR 3 & 4 are independently switchable between analog / aes mode .
4 x Dante / AES67 input available on an Optional Dante card (2 x RJ45)
24-bit, 96kHz ESS conversion;   max analog input level +21.5dBu

Outputs
8 Processor Outputs connect to 8 x XLR connectors, these provide:-
8 x analog outputs, 4 x AES/EBU outputs. 4 x XLR's can be independently switched between analog/aes.
8 x Dante / AES67 outputs available on Optional Dante card.

Latency
High speed ESS AD/DA and enhanced dsp provide analog in to analog out latency of 0.5mS.

Processing
4 inputs patchable via a simple cross point matrix or mix matrix to 8 outputs.
Comprehensive IIR filters and 2 band Dynamic Eq on all 4 inputs
Comprehensive IIR filters, crossover filters and 2 stage limiting on each output
Audiocore amped edition preset library support - speaker specific feature both FIR and IIR presets.
Compatible with XTA grouping system to work alongside XTA DSP & numerous OEM amplifiers.
Frequency Response ±0.5dB 10Hz – 32kHz : Dynamic Range ↑116dB 20Hz -20kHz. Unwtd
Distortion < 0.001% @ 1kHz, +10dBm

ABOUT

DP648 builds on the legacy on the XTA DP448 and DPA amplifiers, it provides a suite of IIR, FIR and dynamic processing for sound system processing.

The Dante/AES67 option and flexible routing make it a comprehensive system processor, for overall system management or for traditional loudspeaker management.

The DP648 works as system processor for any audio system, the XTA system scales for more advanced control when partnered with other XTA products. This includes the MX36 console switcher and the DPA or DNA amplifiers which come with or without dsp.

The system includes :
MX36 for easy source selection via front panel or remote control
6 series for overall system control and routing
DPA amplifiers - with 6 series (4 x 8)processing inside
DNA amplifiers - without dsp

This processing can be controlled by Audiocore Amped Edition and (in Q3 2025) globcon MC2 Edition.

Control options

Ethernet control RJ45 provides control via Audiocore Amped Edition & in (Q3 2025) globcon XTA MC2 Edition.
Optional Dante card provides 2 x RJ45 for audio delivery by Dante / AES67.
GPIO for control / reporting and evacuation - fire system integration.

Please head to WWW.XTA.CO.UK for more details.