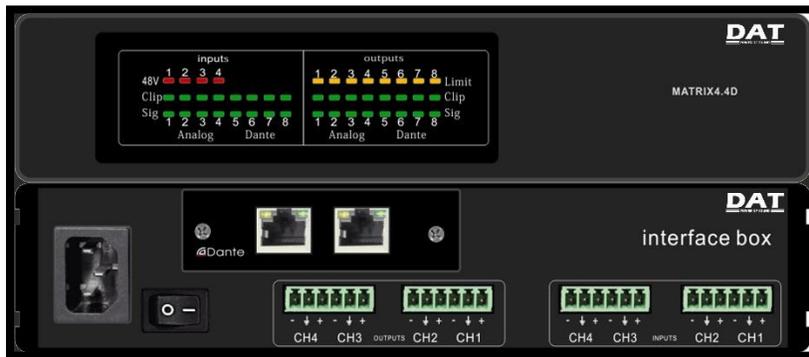**DATA SHEET**

ORION-DSP44DN– Network Audio Matrix DSP with **Dante**

APPLICATIONS

- Conference Rooms
- Exhibition Canters
- Houses of Worship
- Entertain Venues
- Auditorium
- Hotel Ballroom

SYSTEM DESCRIPTION

- The ORION DSP44DN Audio Matrix Shall Consist of 4 CH Mic /Line Local input and 4 CH Local audio Output , Standard 4 CH Dante Input slot Each analog input channel has a +48 V phantom power, Microphone and linear input gain can be switched, Audio channels, where the resources of the Dante channels and analog channels can be shared, can be switched channels

- All input and output channels with independent phase curve adjustment function, PEQ type selection phase shift can be phase 180 degree phase adjustment, 2 phase shift can be 360 degree phase curve adjustment

KEY FEATURES

- 32-bit DSP chip processing,
- 96kHz sampling rate,
- 24 bit AD / DA conversion.

- Standard Dante slot machine with 4 local inputs and 4 local outputs
- Dante Standard Digital Network with 4 inputs and 4 outputs
- Audio channels, where the resources of the Dante channels and analog channels can be shared, can be switched channels.
- Each analog input channel has a +48 V phantom power
- Microphone and linear input gain can be switched
- The sensitivity of the microphone input can be adjusted.
- Input channel processing section includes low cut
- Feedback suppression
- Parametric equalization
- Noise gate,
- Gain Control
- Mute function for Each Channel
- Phase linked adjustment, Volume grouping adjustment and other processing functions.
- Output channel processing section includes frequency, parametric equalizer, gain, mute, compression / limiter, phase, delay, linked adjustment, volume grouping adjustment processing unit.

1. The PEQ gain, bandwidth, and frequency of all channels are continuously adjustable. The types of parameters are selectable: parametric equalization, low filter, high filter, low cut filter, high filter, 1st order phase shift, 2nd order phase shift.

2. All inputs and outputs can be freely assigned matrix, and each input and output channel name can be changed.

3. All high-cut, low-cut filter types are available: Butterworth, Bessel, and Slope continuously selectable.

4. Input channel noise gate threshold, start-up time, recovery time continuously adjustable. The output channel compression / limiter threshold, ratio, start-up time, recovery time continuously adjustable.

5. The delay module for all output channels has a latency of up to 680ms.

6. Arbitrary channel parameters can be freely copied, and any channel can be adjusted linked.

7. You can display the current frequency response curve of all the input or output channels under any input or output channel window.

8. Built-in test signal generator, the output of optional pink noise, white noise and 20Hz-20 kHz sine wave adjustable, adjustable signal amplitude

9. Front panel with input and output level indicator, USB, power, network port and Dante lights, optional USB and network port control port, and Dante digital audio card. One-click PC makes the user's operation easier and faster.

10. 21 user presets, complete machine status and each preset can be stored and recalled separately, but also has password protection to make the device more secure.