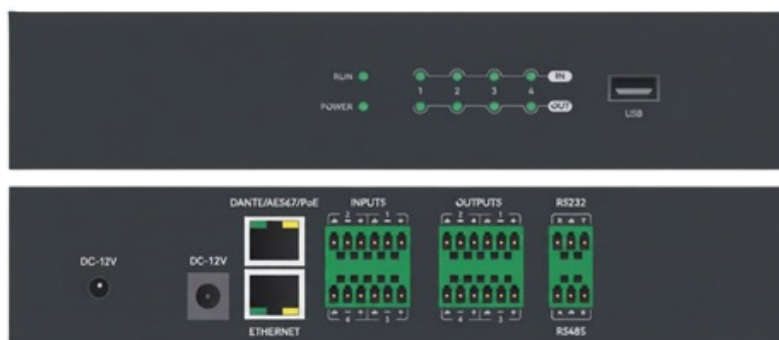




Model Number: RL-DSP44D

FHB Audio 4CH Dante DSP with USB Sound Card



RGB LOGIC AV EQUIPMENT CORPORATION

No. 3, Jalan Rajawali, Singapore. -598436

Website: www.rgblogicav.com

Email : sales@rgblogicav.com



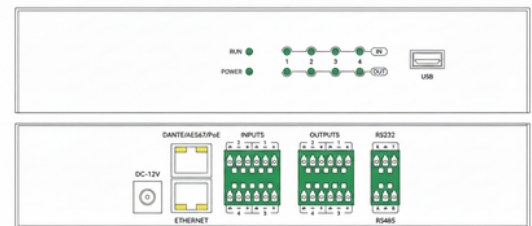
FHB Audio 4CH Dante DSP with USB Sound Card

Model Number: RL-DSP44D

The FHB Audio RL-DSP44D is a versatile 4-channel Digital Signal Processor (DSP) equipped with a built-in two-in, two-out USB sound card . This makes it an all-in-one solution for professional audio environments, supporting high-quality music playback, recording, and seamless integration with soft video conferencing software such as ZOOM, Tencent Conference, and Dingding Conference .

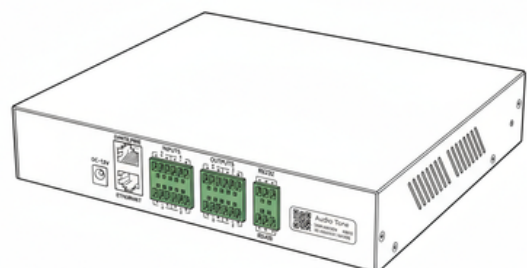
Advanced Audio Processing

This device incorporates several advanced audio features to ensure crystal-clear sound . It includes two independent Acoustic Echo Cancellation (AEC) channels with a 512 ms delay time, a 60 dB/s convergence rate, and an echo suppression amplitude of 60 dB . Additionally, it features an independent feedback suppression (AFC) channel that uses a notch algorithm to increase the sound transmission gain by 10 dB. The unit's Noise Suppression (ANS) technology further enhances audio clarity by increasing the signal-to-noise ratio by 18 dB .



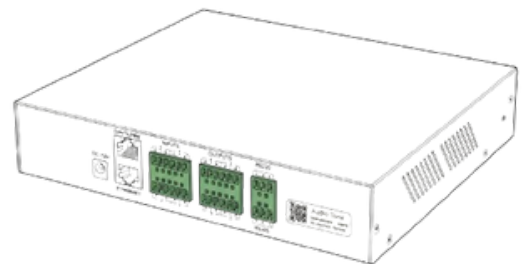
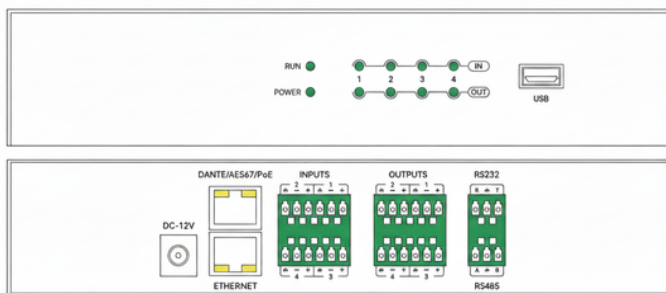
Comprehensive Control and Connectivity

For system integration and control, the DSP supports RS232, RS485, and UDP control protocols . These allow for the management of system power, signal switching, and environmental and sound control functions, enabling key-based operation of required system features . The device also provides customized management interfaces for end-users, with a single interface capable of managing up to 30 devices simultaneously .



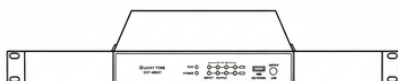
Channel Specifications and Features

The RL-DSP44D is configured with four analog input channels, four analog output channels, and a 4x4 Dante channel matrix . It offers sophisticated audio customization through an eight-step parametric setting, which provides five distinct filter options: Parametric, Lowshelf, Highshelf, Lowpass, and Highpass-throughput .



Primary Applications

With its robust feature set, this Dante DSP is highly suitable for a wide range of professional audio installations . Its primary applications include large conference rooms, exhibition halls, multifunctional halls, gymnasiums, and other event spaces requiring high-performance audio processing and distribution .



Technical Specifications

Analog Inputs: 4 channels

Analog Outputs: 4 channels

Dante Channels: 4x4 matrix

AEC Delay Time: 512 ms

AEC Convergence Rate: 60 dB/s

Echo Suppression Amplitude: 60 dB

AFC Gain Increase: 10 dB

Specifications

Feature	Specification
Analog Input Channels	4
Analog Output Channels	4
Dante Channels	4x4
USB Sound Card	Built-in 2-in, 2-out
Acoustic Echo Cancellation (AEC)	2 Independent Channels
Acoustic Echo Cancellation (AEC)	512 ms Delay Time
Acoustic Echo Cancellation (AEC)	60 dB/s Convergence Rate
Acoustic Echo Cancellation (AEC)	60 dB Echo Suppression
Feedback Suppression (AFC)	10 dB Gain Increase (Notch Algorithm)
Noise Suppression (ANS)	18 dB Signal-to-Noise Ratio Increase
Parametric Equalization	Eight-step with 5 filter options (Parametric, Lowshelf, Highshelf, Lowpass, Highpass-throughput)
Control Protocols	RS232, RS485, UDP
Device Management	Manage up to 30 devices
User Interface	Customized for terminal users
Software Compatibility	ZOOM, Tencent Conference, Dingding Conference
Recommended Applications	Large conference rooms, exhibition halls, multifunctional halls, gymnasiums

Advanced Audio Processing

The device ensures pristine audio through advanced features, including two independent Acoustic Echo Cancellation (AEC) channels with a 512ms delay time, an independent feedback suppression (AFC) channel that increases sound transmission gain by 10 dB using a notch algorithm, and Noise Suppression (ANS) that enhances the signal-to-noise ratio by 18 dB . For system integration, it supports RS232, RS485, and UDP control modes, allowing for comprehensive control over power, signal switching, and other system functions . This DSP is equipped with 4 analog input channels, 4 analog output channels, and a 4x4 Dante channel matrix, while also offering an eight-step parametric setting with five filter options for precise audio customization .