ERTHPOT

KYRO 44D

Semi-Open architecture DSP

Dante

ANALOG DEVICES

NHS | AEC | ANS | AGC | ANC | AMM

- Supports audio channel duplicating, linking, and grouping.
- Supports RS-232/485 and UDP central control.
- Provides the flexibility to assign UDP port number, with the control commands available through the control software. With USB type-C for PC connect
- Built-in dual channel USB sound card can be used for audio recording, audio broadcasting, and video conference.
- Supports both PoE power supply and DC 12V power adapter.
- Supports iOS and Windows operating system.

Overview

The ERTHPOT KYRO 44D is a compact 1U half-rack audio processor built on an ADI SHARC platform. It offers a semi-open architecture for integrated device management through a flexible user interface.

The KYRO 44D provides high-quality 24bit/48kHz audio. It includes 4 analog input/output channels and 4x4 Dante input/output channels. A key feature is its built-in camera tracking. The device also has a comprehensive audio mixing matrix with adjustable input levels and supports up to 16 independent presets. It enables versatile audio channel management, including duplicating, linking, and grouping functions. For control, the KYRO 44D supports RS-232/485 and UDP central control, with flexible UDP port assignment and software-based commands.

Connectivity includes a USB Type-C port for PC connection, featuring a built-in dual-channel USB sound card for audio recording, broadcasting, and video conferencing. The KYRO 44D can be powered via Power over Ethernet (PoE) or a 12V DC adapter and is compatible with iOS and Windows.

Specification

Processor	ADI SHARC 21489	Input/Output dynamic range	113dB
Sampling rate/quantization bits	48K/24bit	Camera Tracking	Support
No. of analog input and output channels	4x4	Channel isolation @1kHz	108dB
No. of DANTE input and output channels	4x4	Input impedance (balanced connection)	5.4KΩ
Input gain	0/6/12/18/24/30/36/42/48dB	Output impedance (balanced connection)	600Ω
Phantom power	+48V/10mA max	System delay	<3ms
Frequency response	±0.5dB(20~20kHz)	Working power supply	DC 12V or PoE 48V
Maximum level	+18dBu	Dimensions (width x depth x height)	215x162x44mm
THD+N	<-95dB @17dBu	Shipping weight	2KG

Key Features

- ADI SHARC platform with semi-open architecture.
- Integrated management of multiple devices offers open user interface and supports good sound quality (at 24 bit/48kHz.)
- Each channel has its own independent adaptive feedback suppression which can find and suppress audio feedback automatically. Full-duplex Adaptive Echo Cancellation (AEC) and Active Noise Cancellation (ANS).
- Gain sharing Auto Mixer Control (AMC).
- Automatic Gain Control (AGC).
- Full-featured audio mixing matrix supports adjustable input level.
- Provides up to 16 presets, each can work independently.

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