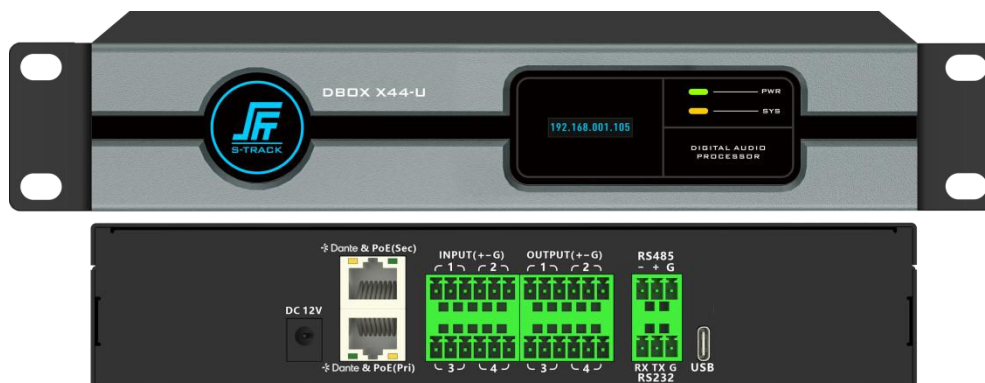


DBOX X

Digital Signal Processor



Product Introduction

The device supports analog channel 4 into 4 out, USB-C Sound Card, comprehensive matrix mixing function, equipped with high-performance A/D D/A converter and 32-bit floating-point DSP processor, support 24bit/48KHz sampling frequency, restore high-quality sound, user-friendly operation software interface, easy to operate and powerful performance. Mainly used in a variety of large places, can meet the theater, concert halls, remote video conferencing, stadiums, churches, conference centers, theme parks, public sound reinforcement systems and other aspects of the application needs.

Product Features

- Highly integrated, integrating a variety of traditional Analog audio processing equipment in a Digital audio processor;
- High-performance 32-bit floating-point DSP processor, all-digital processing, fast response to feedback cancellation, echo cancellation, noise suppression and other core algorithms;
- High-performance A/D, D/A converter, 24bit/48KHz sampling frequency, high-quality Analog → Digital, Digital → Analog conversion;
- 4 Analog input channels and 4 Analog output channels, very small distortion and ultra-low background noise;
- Supports Dante network transmission, which makes audio transmission more stable and faster;

- Humanization, graphical, intuitive and easy-to-operate control software interface;
- Comprehensive matrix mixing functions;
- Scene storage is different from the Analog equipment is one of the most practical and significant features, can store 8 complete scenes, all the scenes can be exported to an external storage device for storage backup, so that the later call at any time.

Functions

- ✧ Comprehensive matrix mixing function, 24-bit/48KHz sampling frequency, high performance A/D, D/A converter and 32-bit floating point DSP processor;
- ✧ Inputs per channel: Preamplifier, 5-band Parametric Equalizer, Compressor, Ducker, AFC, AEC, ANS;
- ✧ Outputs per channel: 31-band Graphic Equalizer, Limiter;
- ✧ Display shows the IP address;
- ✧ Input mute button, phantom power button;
- ✧ Output mute button, invert button per channel;
- ✧ Ethernet multi-purpose data transmission and control port, can support real-time management of single and multiple devices;
- ✧ Intuitive image, simple and easy to understand the graphical software control interface, for customers to bring fast, real-time operating experience;
- ✧ Support PC client software control, machine built-in client, support for online downloads;
- ✧ USB Type-C interface, support USB Audio Card;
- ✧ Configuration of bi-directional RS232 interface, RS485 interface, standard Ethernet control interface;
- ✧ POE mode power supply, can be used with 802.3af/at standard POE switch;
- ✧ Support 8 groups of scene presets, scene create, save, delete and other functions;
- ✧ Intuitive, graphical software control interface, works on Windows XP, 7, 8, 10, 11, etc.;
- ✧ Supports 4×4 Dante channels.

Specification

Category	Parameter Item	Parameter Description
Peripherals	Input Interfaces	4 Analog and 4 Dante
	Output Interfaces	4 Analog and 4 Dante
	Display	Displays the device IP address
	Control Interfaces	2 RJ45 interface, 1 RS232 interface, 1 RS485 interface
Audio processing	Processor	TI 456MHz FLOPS dual-core 32-bit DSP processor; 24-bit A/D and D/A converter, 48kHz sampling rate
	Input Channel	Functional module: Preamplifier, 5-band Parametric Equalizer, Compressor, Ducker, Acoustic Feedback Canceled (AFC), Acoustic Echo Canceled (AEC), Adaptive Noise Suppressor (ANS), Ducker. Physical interface: Balanced Phoenix terminals.
	Output Channel	31-band Graphic Equalizer, Limiter. Physical interface: Balanced Phoenix terminals
	Phantom Power	DC 48V
	Input Impedance	Balanced: 20K Ω
	Output Impedance	Balanced: 100 Ω
	Common Mode Rejection Ratio	52dB@50Hz
	Frequency Response	20Hz~20KHz, ± 0.15 dB
	Noise Floor	-89dBu
	Signal-to-Noise Ratio	105dB

	THD+N	≤0.003% @1kHz, +4dBu
	Channel Isolation	100dB@1kHz, 4dBu
	Input Range	≤+18dBu (A-Weighting)
	Equalizer	- Parametric Equalizer: Frequency: 20 to 20kHz, Gain: -15 to +15dB, Bandwidth: 0.02 to 4 - Graphic Equalizer: Frequency: 20~20kHz, Gain: -15~+15dB
	Maximum Output Level	18dBu
	Maximum Input Level	18dBu
	Analog/Digital Dynamic Range	120dB
	Digital/Analog Dynamic Range	120dB
General specification	Operating Voltage	Power adapter input: AC 100V~240V, 50Hz/60Hz; Output: DC 12V/2A; OR POE power supply
	Maximum Power	15W
	Operating Temperature and Humidity	-10℃~40℃, 10%~90%RH, No condensation
	Chassis	1/2U
	Product Dimensions (L×W×H)	216mm×190.5mm×44mm
	Net weight	1.2kg
	Package Dimensions (L×W×H)	330mm×230mm×70mm
	Gross Weight	1.6kg