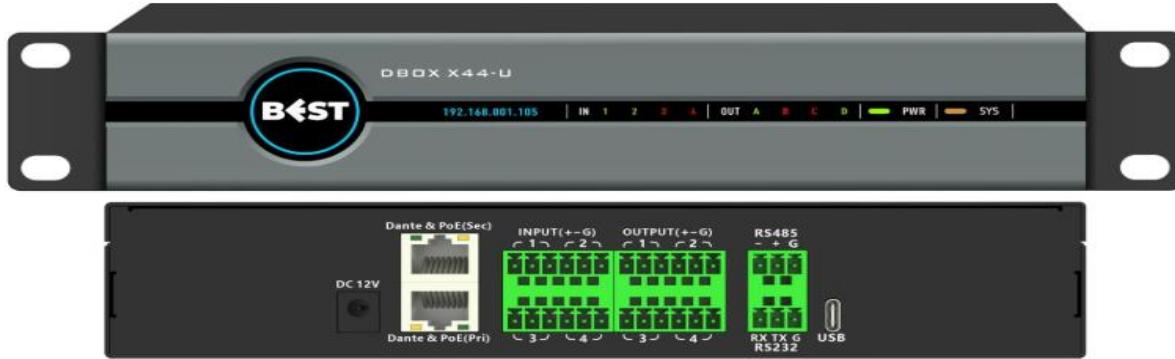


BA-DB44-Digital Signal Processor



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, 24bit/48KHz sampling frequency, high performance A/D, D/A converter and 32-bit floating point DSP processor;
- DSP audio processing, built-in automatic mixing console, including mixing and automatic mixing functions, but also has a mixing component control function; at the same time with AFC, AEC, ANS module;
- Inputs per channel: Preamplifier, Generator, Expander, Compressor, Auto Gain, 5-band parametric EQ, Ducker;
- Outputs per channel: delay, crossover, limiter, 31-band graphic EQ;
- Display shows the IP address;
- Input phase switch, mute switch, phantom power switch;
- Output mute switch, phase switch 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;
- The device does not need a disc, comes with installation software, a device for a software version, to solve the troubles caused by the loss of the installation disc and the confusion of multiple software versions;
- Extendable USB-C interface, support USB Sound 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 increase, save, delete and other functions;
- Intuitive, graphical software control interface, works on Windows XP, 7, 8, 10, 11, etc..

Specification

Analog channels	4 balanced/line inputs 4 balanced/line outputs
Dante channels	4 input,4 output
Number of USB-C Sound Cards	1
Number of 232 serial interfaces	1
Number of 485 serial interfaces	1
Number of RJ45 interfaces	2
Sample Rate & Quantization Bits	48KHz@24bit
Phantom Power	48V
Frequency Response	20Hz ~ 20KHz,±0.15dB
THD+N	≤0.003%@1kHz,4dBu
Analog to Digital Dynamic Range (A-weight)	120dB
Digital to Analog Dynamic Range (A-weight)	114dB
Input Impedance (Balanced)	20kΩ
Output Impedance (Balanced)	100Ω
Channel Isolation	100dB@1KHz,4dBu
Signal-to-Noise Ratio	107dB
Maximum Input Level	18dBu

Maximum Output Level	18dBu
Background Noise	-89dBu
Operating Power Supply	DC 12V/PoE power supply
Power Consumption	<15W
Operating Temperature	-10°C-40°C
Operating Humidity	10%~90% No condensation
Product Weight	0.8KG
Product Size	216x190.5x44mm