

## D6643HD

### 12 Channel Digital Audio Processor with Echo Suppressor and Dante



#### Description

The D6643HD Digital Audio Processor is consistent with Dante interface is that for long distance transmission.

The device supports a maximum of 16 In & 16 Out analog channel and 1 USB extended recording and broadcasting channel, high-quality 21-stage preamplifier circuit, DSP processing bus structure, built-in feedback eliminator, noise eliminator, echo eliminator and other functions to restore high-quality sound, mainly used in a variety of huge venues, such as theaters, concert halls, remote video conferences, stadiums, churches, conference centers, theme parks, etc. It can be divided into D6642HD (8 In & 8 Out) , D6643HD (12 In & 12 Out) and D6644HD (16 In & 16 Out) according to the number of physical input and output interfaces.

#### Features

- 12 channels analog audio input & output
- Comprehensive matrix mixing function, 24bit/48KHz sampling frequency, high performance A/D D/A converter and 32-bit floating point DSP processor.
- High-precision input sensitivity adjustment, with a total of 21 levels, 3dB/step and a maximum input gain of 51dB
- Effective algorithm processing: AFC, AEC, ANS, AUTOMIXER, EQ, GATE, AGC, etc.
- Rich interface expansion: support 8-channel custom input and output GPIO, the level supports external input 3.3~24V; USB interface supports recording and broadcasting function; RS-485 supports automatic camera tracking function, easy to realize video conference; RS-232 two-way serial control interface: can send or receive control, such as video matrix, camera and other equipment.
- Support multiple groups of scene presets, scene saving and many other functions, humanized operation software interface.
- Convenient webpage control: Built-in webpage control port, which can be quickly operated on Windows, Android, iOS and other platforms.

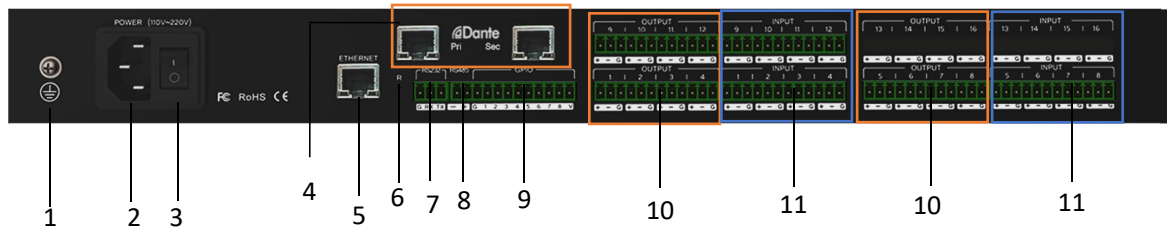
## Specifications

Model	D6643HD
Max. Numbers of Inputs	12
Max. Numbers of Outputs	12
Number of RS232 Serial Ports	1
Number of RS485 Serial Ports	1
GPIO Quantity	8, Freely configurable inputs and outputs
RJ45 Quantity	1
USB Quantity	1, The recording and broadcasting is available
Max. Analog Gain	51dB
Phantom Power	48V
Input&Output Quantization	48KHz/24bit
A/D Dynamic Range	120dB
Input Common Mode Rejection	70dB @ 80Hz
Input Resistance	20kΩ balance, 10kΩ unbalance
Max. Input	18dBu
D/A Dynamic Range	120dB
Channel Isolation	100dB
Frequency Response	20~20kHz (±0.25dB)
Total Harmonic Distortion (THD+N)	≤0.003% @1kHz, +4dBu
Output Resistance	100 Ω balance, 50 unbalance
Max. Output	18dBu
Working Power	AC 110V/220V 50Hz/60Hz
Working Temperature	-10~70°C
Package Size (mm)	567×377×98
Product Size (mm)	483×270×44
Gross Weight	3.2kg
Net Weight	2.15kg

## Front/Rear Panel



- (1) PWR: Power indicator light, the device power supply is normal when the light is on, and the power supply of the device is abnormal when the light is off;
- (2) SYS: status indicator light, the flashing light indicates that the equipment is operating normally, otherwise the equipment is faulty;
- (3) USB: support recording and broadcasting function;



- (1) Chassis Grounded Point
- (2) POWER: 220VDC Power Input Interface
- (3) Power Switch
- (4) Dante: Used to connect to Dante digital audio network;
- (5) ETHERNET: 10M/100MEthernet interface, used to connect to the control terminal (PC, router, etc.);
- (6) RESET: Restore factory settings, long press for 5 seconds is effective;
- (7) RS232: Support central control commands and camera tracking, RX: receive data, TX: send data, G: ground;
- (8) RS485: Support camera tracking;
- (9) GPIO: GPIO control;
- (10) OUTPUT: Analog output;
- (11) INPUT: Analog input;