

D6643H

12 Channel Digital Audio Processor with Echo Suppressor



Description

The device supports 12 input/output analog channels and 1 extended USB recording and broadcasting channel. It is equipped with high quality 21 level pre-amplifier circuit, DSP processing bus structure, and with multiple functions such as echo eliminator, noise eliminator to restore high quality sound. It's mainly applied in a variety of large venues like theater, concert hall, remote video conferencing, sports venues, churches, conference centers, theme parks and so on. Its operation is simple and intelligent.

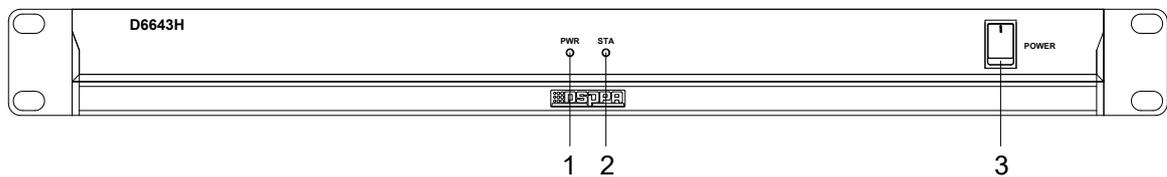
Features

- 24 bit/ 48KHz sampling frequency, high-performance A / D, D / A converter and 32-bit floating-point DSP processor, full-function matrix mixing function to provide users with excellent and clear sound.
- High-precision input sensitivity adjustment with 21 levels, 3dB steps; the maximum input gain is 60dB.
- Efficient algorithm processing: AFC, AEC, ANS, AUTOMIXER, EQ, GATE, AGC and so on.
- Abundant interface extension: Input and output GPIO of 8 channels can be customized. Support external input level of 3.3 ~ 24V; USB interface supports recording and broadcasting, scene preservation and other functions. RS-485 supports automatic camera tracking, easy to achieve video conferencing; RS-232 two-way serial control interface, it can control or be controlled, such as video matrix, camera and other equipment.
- Support scene preset for multiple group, user-friendly operating software interface.
- Fast operation: web control mode, support Android, IOS system.
- Support 1 USB recording channel.
- Support echo/noise elimination function.

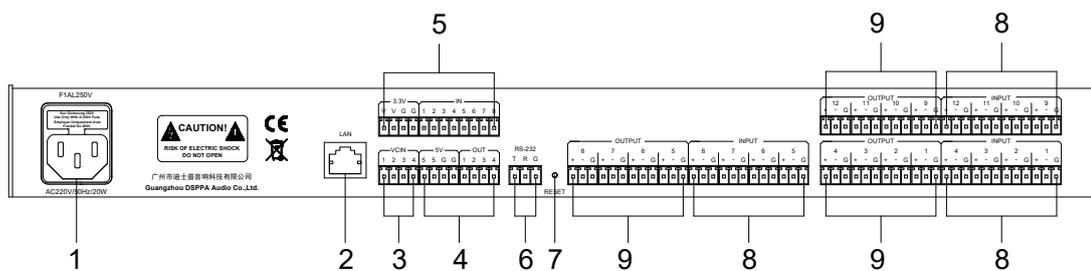
Specifications

Model	D6643H
Input number	12
Output number	12
232 serial number	1
485 serial number	1
GPIO number	8, Freely configurable input and output
RJ45 number	1
USB number	1, Supports recording and broadcasting
The maximum analog gain	-60dB
Phantom powered	48V
Input and output	48KHz/24bit
A/D Dynamic Range	120dB
Input common mode rejection	80 dB @ +24dBu @60Hz
Input resistance	20kΩ balance, 10kΩ unbalance
Maximum input	24dBu
D/A Dynamic Range	120dB
Channel isolation	100dB
Frequency response	20~20kHz (±0.25dB)
Total harmonic distortion(THD+N)	≤0.002% @1kHz, +4dBu
Output impedance	100 Ω balance, 50 unbalance
Maximum output	24dBu
Working power supply	AC 90V~260V AC, 50Hz /60Hz
Operating temperature	0~40℃

Front / Rear Panel



1. PWR: Power indicator, after powered on, the power supply of the device is normal if the indicator is on, the power supply of the device is abnormal if the indicator is off;
2. STATUS: Status indicator, a light flash indicates that the system is running normally and the light will stay on during the upgrade;
3. Power switch: Press “—” to turn it on, and press the opposite to turn it off.



1. AC220V: Power plug, AC220V power supply, 50Hz;
2. LAN: Network interface, connected to PC, online editing and command transmission and control;
3. VCIN: Corresponding to the 1~4 input interface of GPIO configuration interface, analog or logic control. When configured as the analog, it can be connected to the wall panel for analog voltage volume adjustment control. When configured as the logic, it is used as a normal I/O port;
4. GPIO OUT: Corresponding to the 1~4 output interface of GPIO configuration interface, logic control, connected to external control circuit;
5. GPIO IN: Corresponding to the 5~12 output interface of GPIO configuration interface, logic control, connected to external control circuit;
6. RS232: Communication interface, connected to external central control device / support camera tracking;
7. RESET: Restore the factory settings button, method: power off, press and hold RESET, and then power on, the processor has been enabled for 15 seconds and the panel STA indicator flashes 5 times and then resets successfully;
8. INPUT: Analog audio MIC/LINE input interface, balanced Phoenix port;
9. OUTPUT: Analog audio output interface, balanced Phoenix port.