

D6648

4x8 Analog Professional Audio Processor



Description

This series of devices supports 4×8 analog channels with a high-quality 14-stage preamplifier circuit and a DSP processing bus architecture to deliver high-fidelity sound reproduction. It is widely applicable to large venues such as theaters, concert halls, remote video conferencing rooms, stadiums, churches, conference centers, and theme parks, meeting diverse sound reinforcement requirements. The device is designed for straightforward operation and features intelligent control functions.

Features

- 24-bit/48kHz sampling frequency, high-performance AD/DA converters, and a 40-bit floating-point DSP processor.
- High-precision input sensitivity adjustment with 14 levels, 3dB steps, and a maximum input gain of 42dB.
- Full-featured matrix mixing function, delivering exceptional clarity with comprehensive processing including EQ, GATE, COMP, LIMIT, and AGC.
- GPIO supports 8-channel scene switching for quick operation, with RS232 and RS485 central control commands.
- 60 scene presets with a user-friendly interface, supporting fast switching between Chinese and English.
- TCP/IP control protocol for PC connection, enabling web-based quick control and parameter adjustment.

Specifications

Model	D6648
Input/Output	4×8
Input/Output Type	Analog
Signal Processor	40-bit floating-point DSP 400MHz
Bit Depth	24-bit
Sampling Frequency	48kHz

Input Impedance	<10KΩ
Output Impedance	200Ω
A/D Dynamic Range	118dB
D/A Dynamic Range	118dB
Max Input Level	+18dBu
Max Output Level	+18dBu
Transmission Delay	4.1ms
Output Channel Delay	0ms~1500ms (Step:0.02ms)
THD+N	≤0.005% (+4dBu 1kHz)
Frequency Response	20Hz~20kHz ±0.3dB
CMRR	≥55dB
Crosstalk	≤-100dB
SNR	≥111dB (20~20KHz)
Dynamic Range	≥111dB (20~20KHz)
Noise Floor	≤-93dBu (20~20KHz)
Connection Type	TCP/IP, RS232, RS485
Preset	60
Size	482×253×44mm
Net/Gross Weight	3.3kg / 3.8kg