



Dante 8-Channel Audio DSP

500601



Overview

The Dante 8-Channel Audio DSP (Model 500601) is a product developed for the transmission, routing, and processing of audio signals in Dante networks. It can perform high-quality, low-delay audio transmission, supports 8-way input and output balanced analog channels, and can be powered via a 110-220VAC power receptacle. This processor supports 8-way analog audio signal balance input and output and 8-way Dante digital audio signal input and output. It also features a USB audio card that supports one channel of audio input and one channel of audio output. The device has one of the best DSP algorithms in the industry that includes options such as AEC, AFC, ANC, Ducker, Compressor, Limiter, Mixer and Graphic Equalization among others. In addition, the product provides PC version control software to monitor and operate all the functions on the DSP in an easy and intuitive way. Comprehensive API Commands are available for system automatization. Supports multiple sets of scene presets.

Applications

- Conference Rooms
- Education
- Retail Stores
- Hotels
- Restaurants
- Conference Center
- Hospitals

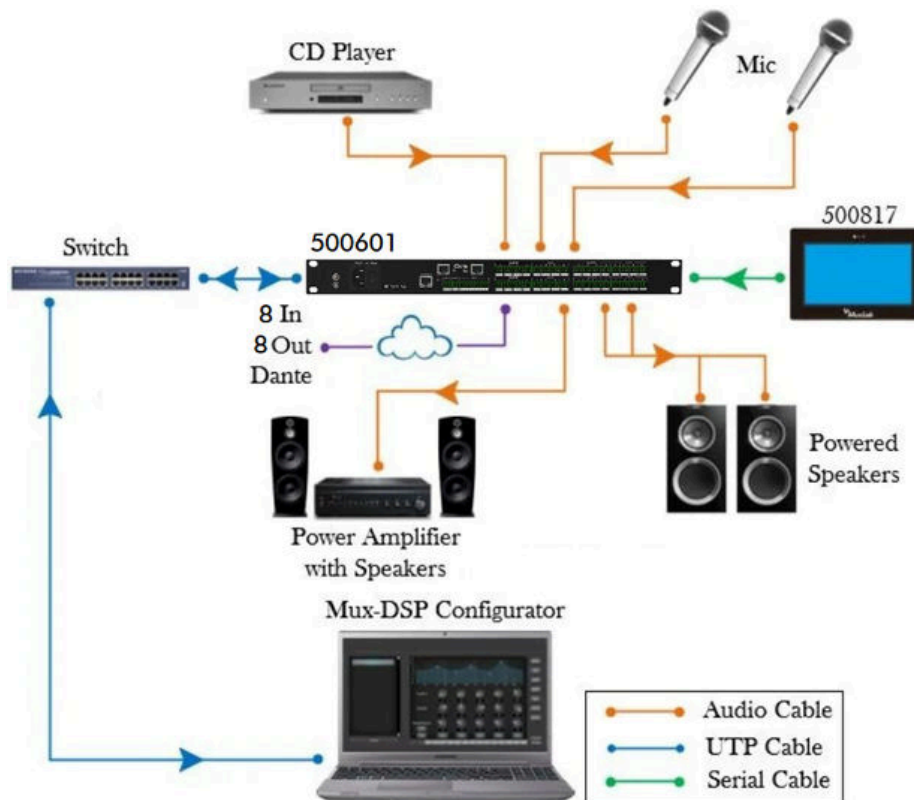
Key Features

- Built-in Dante module
- Features 8 balanced inputs and 8 balanced outputs
- Features a USB sound card
- The input supports 48VDC phantom power supply
- DSP processing functions include gain adjustment, stage parameter equalization, compressor, ducker, mixer, graphic equalization, limiter, setting, etc
- Provides software for the Windows platform to manage all audio operations
- API provided for RS232, RS485 and TCP/IP control
- Supports AES67 RTP audio transport
- Supports GPIO for additional interface expansion

Specification

| | |
|------------------------------|--|
| Analog Audio | 8 balanced inputs + 8 balanced outputs |
| Dante Audio | 8 inputs + 8 outputs |
| USB Sound Card | 1 input + 1 output |
| Analog Maximum Gain | 51dB |
| Quantization Bits | 24bit |
| Sample Rate | 48k |
| Phantom Power | 48VDC |
| Frequency Response | 20Hz~20KHz±0.25dB |
| THD+N | ≤0.003% @ 1KHz, +4dBu |
| Digital/Analog Dynamic Range | 114dB |
| Analog/Digital Dynamic Range | 120dB |
| Input Impedance | 20kΩ Balanced, 10kΩ Unbalanced |
| Output Impedance | 100Ω Balanced, 50Ω Unbalanced |
| Maximum Input Level | 18dBu, Balanced |
| Maximum Output Level | 18dBu, Balanced |
| Input Common Mode Rejection | 84dB @ +24dBu @60Hz |
| Channel Isolation | >104dB |
| Number of GPIO | 8 ports, can be configure as input and output |
| Number of RS485 serial ports | 1 |
| Number of RS232 Serial Ports | 1 |
| Number of USB sound cards | 1 |
| Operating Temperature | 0°C - 40°C |
| Working Power Supply | 110-220VAC, 50/60Hz |
| Warranty | 2 years |
| Order Information | 500601 Dante 8-Channel Audio DSP (UPC: 627699006016) |

Diagram



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