# STAPES



## DIGITAL SIGNAL PROCESSOR & CONTROL
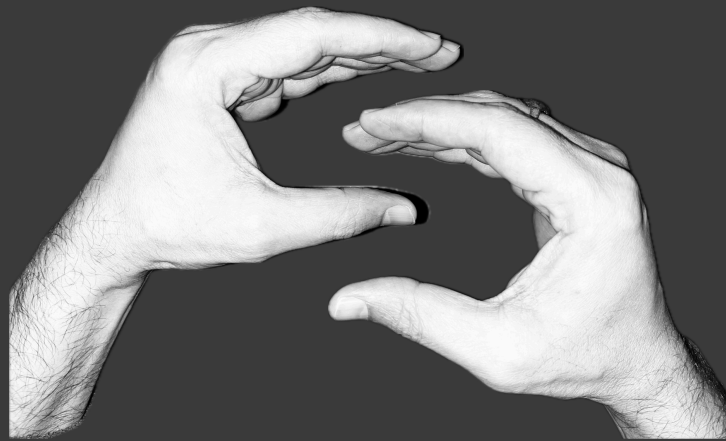
# Seamless Integration of Digital Signals

## ATH Series
## ST Series

WARRANTY
2 YEARS
WARRANTY
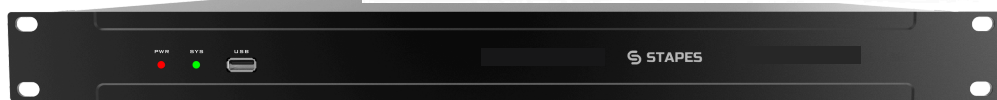


# STAPES

# Digital Signal Processors
# ATH Series

## Why you should choose Stapes

## Overview

The STAPES Digital audio processors are versatile audio processing and control system designed with advanced DSP technology. It features automatic mixing, feedback elimination, echo cancellation, and noise cancellation, addressing various practical challenges in different application scenarios
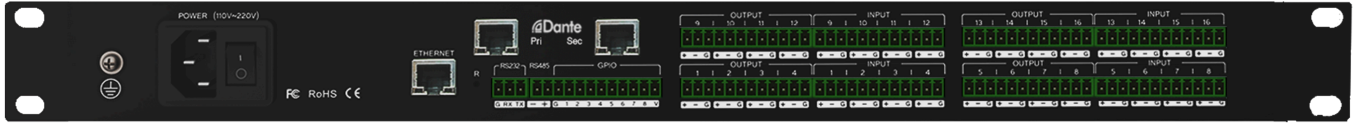


## Key Functions
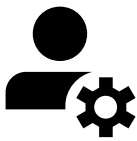
With its central control function, this DSP supports RS232, RS485, and UDP control modes. It enables comprehensive management of system power, signal switching, environmental control, and audio control

**Central Control Function**

Series of DSP utilizes advanced AEC algorithms for rapid echo and double-talk elimination, ensuring clear and uninterrupted intelligent voice quality

**Acoustic Echo Cancellation (AEC)**
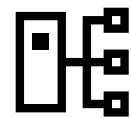
The ATH Series from STAPES features essential algorithms such as ANS (Automatic Noise Suppression), AFC (Adaptive Feedback Control), and AGC (Automatic Gain Control), ensuring clear and comprehensible audio output

**Advanced Audio Processing**

For any complex integration, this DSP offers built-in automatic camera tracking

**Built-in automatic camera tracking**

This DSP includes an automatic memory protection feature that activates when the power is turned off. This ensures that all configurations and settings are preserved, preventing data loss and maintaining system integrity

**Automatic memory protection**

Audinate's Dante technology enables smooth and hassle-free digital audio transmission over standard local area networks. Dante-enabled devices can share multiple channels of high-resolution digital audio with each other across a local area network

**Built in Dante Moudle**
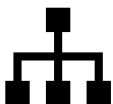
USB audio interface, providing a straightforward connection for high-quality digital audio transmission. This interface simplifies integration with various audio systems and devices, enhancing versatility and ease of use

**USB Audio Interface**

with an easy-to-use program GUI, offering a user-friendly interface for efficient configuration and management. This intuitive graphical user interface streamlines the setup process, making it simple to adjust settings and control system functions

**Easy Program GUI**

## Variants

### Open architecture Dante DSP Series

      32CH Dante DSP(With 8*8 Analog channel)

      64CH Dante DSP(With 16*16 Analog channel)

      64CH Dante DSP(With 16*16 Analog channel)

### ST Dante DSP Series

      8 Channel Dante DSP

      12 Channel Dante DSP

      16 Channel Dante DSP

### Economy Dante DSP Series

      8 Channel DSP with Dante(4CH dante)

### Mini Dante DSP Series

      4CH Mini Dante DSP

      8CH Dante DSP

      16CH Dante DSP
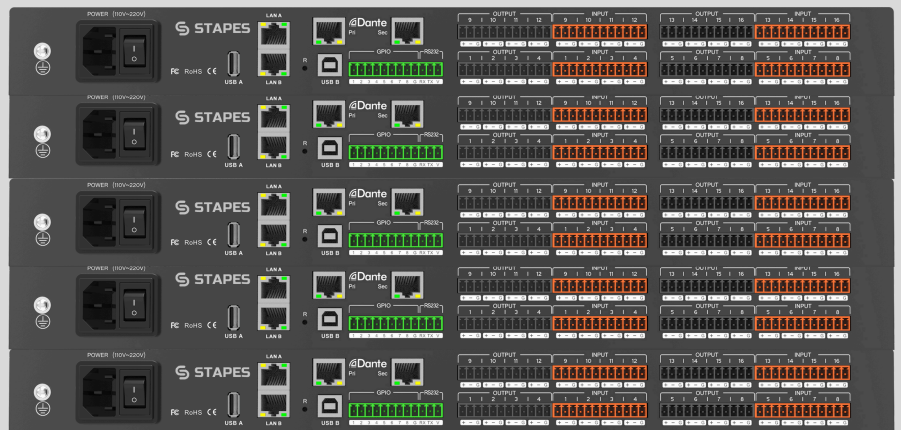
### Mini Non-Dante DSP Series

      4 Channel DSP

      8 Channel DSP

      12 Channel DSP

      16 Channel DSP

## Applications

The digital signal processor (DSP) is essential in a conference room, significantly enhancing the audio experience. It manages all audio inputs and outputs within the conferencing system, processing the signals to ensure clear and intelligible speech for all meeting participants.

**For example, in a large conference room, the DSP can handle multiple microphones and speakers, adjusting audio levels, reducing background noise, and eliminating echoes. This ensures that each participant, whether speaking or listening, experiences clear and balanced audio, making communication more effective and professional.**

- **Audio signal processing: DSPs are used in audio systems for tasks like equalization, audio compression, and noise cancellation.**
- **Speech processing: DSP algorithms are used for speech recognition, enhancement, and synthesis.**
- **Voice processing: DSP is important for voice-based applications like voice assistants, voice-controlled systems, and voice communication.**

**Conference Rooms**

**Training Rooms**

**Class Rooms**

**Restaurants**

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