

# Overview

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Express Audio is a real-time audio interactive service product that can provide developers with convenient access, high-definition smooth, multi-platform interoperability, low latency, high concurrency audio and video services, can achieve one-to-many, many pairs Multiple real-time audio interactions, live shows on show, voice conferences and other scenarios.

Extreme Speed Audio also provides developers with the ability to access audio and video services at full speed on a four-line code platform, allowing developers to build products and services with a perfect audio experience in 30 minutes.

## 1 Main features and scenarios

Categories	Key Features	Description	Typical Scenarios
Base	Publish-play Stream	It supports RTMP, FLV, HLS and RTP protocols, and the global node realizes ultra-low 100ms latency, while providing multi-CDN push flow and adaptive flow control functions.	Online education Live show
	Live Co-hosting	Support multi-master live mike, multi-person real-time	PK Co-hosting Multi-person conference

		communication and other functions, can achieve up to 32-way live mike push-pull stream.	
Audio Engine	Echo Cancellation	The engine has its own echo cancellation function, in the case of duplexing, all parties to speak clearly, duplexing experience is good, support Comfort, moderate and aggressive three echo cancellation mode.	Online education Live show
	Noise reduction	The engine has a built-in noise suppression function that incorporates a psychoacoustic model to improve the signal-to-noise ratio by 20dB+, without compromising the sound quality of the voice.	Online education Live show
	Auto Gain	The engine comes	Online education

		with an auto-gain function, which automatically adjusts the microphone volume to adapt to near and far pickup, bringing a good experience in noisy environments.	Live show
	Multiple encoding	Support a variety of hard coding, a variety of soft editing, to adapt to the coding requirements of a variety of application scenarios and network environments.	Online education Live show
	Multiple decoding	Support multiple hard solutions and multiple soft solutions to meet the decoding requirements of various application scenarios and network environments.	Online education Live show

Network Transmission	Network transmission Qos	Realize the dynamic balance of redundant data (FEC) and retransmission strategy (ARQ), on the one hand to ensure the full use of broadband, on the other hand not to grab bandwidth and cause link congestion.	All
	Network adaptation	Provide end-to-end full chain optimization algorithm, can predict the network speed according to the current network situation and automatically perform flow control, support weak network adaptive push and pull flow.	All
	Intelligent adjustment	The intelligent adjustment of code rate and frame rate guarantees fluency.	All
	Jitter buffer	In a weak network	All

	environment, use a good jitter buffer strategy to find the best fit between delay and fluency.
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## 2 Feature Index

Features	Interactive video metrics
SDK Package volume	<p>The package size increments of the Express-Video SDK (standard edition) is as follows:</p> <ul style="list-style-type: none"> <li>• iOS (arm64) : 4.25 MB</li> <li>• Android (arm64) : 6.79 MB</li> <li>• Android (armv7) : 6.49 MB</li> <li>• macOS (x86_64) : 10.60 MB</li> <li>• Windows (x86) : 11.07 MB</li> <li>• Windows (x86_64) : 14.37 MB</li> </ul>
Multiplayer audio	Support 32-channel real-time audio interaction
Audio quality	<p>Audio sampling rate: 16k~48k</p> <p>Support single and dual channel</p> <p>Echo cancellation: support 10 simultaneous speech</p>
Massive concurrency	Global 200+BGP nodes, providing stable multinational content distribution network

## 3 Platform compatible

Interactive audio supports iOS, Android, Windows, macOS, Web, applets and supports inter-platform communication. Specific compatibility requirements are shown in the table below.

<b>Platform</b>	<b>Supported Version</b>	<b>Supported Architecture</b>
iOS	7.0+	arm64 armv7 x86_64 (Simulator)
Android	4.1+	arm64-v8a armeabi-v7a x86 x86_64
Windows	Windows 7+	x86 x64
Linux	Ubuntu 16.04+ / CentOS	x86_64
macOS	10.10+	x86_64
Web	Chrome 58+ Firefox 56+ Safari 11+ Opera 45+ QQ browser windows 10.1+, macOS 4.4+ 360 safe browser speed mode	-
Mini Program	stand by	-