

ISD1200 Series

Single-Chip Voice Record/Playback Devices 10- and 12-Second Durations



The ISD1200 ChipCorder® Series provides high-quality, single-chip record/playback solutions to 10- and 12-second messaging applications. The CMOS devices include an on-chip oscillator, microphone preamplifier, automatic gain control, antialiasing filter, smoothing filter and speaker amplifier. A minimum record/playback subsystem can be configured with a microphone, a speaker, several passives, two push-buttons and a power source.

Recordings are stored in on-chip nonvolatile memory cells, providing zero-power message

storage. This unique, single-chip solution is made possible through ISD's patented multilevel storage technology. Voice and audio signals are stored directly into memory in their natural form, providing high-quality, solid-state voice reproduction.

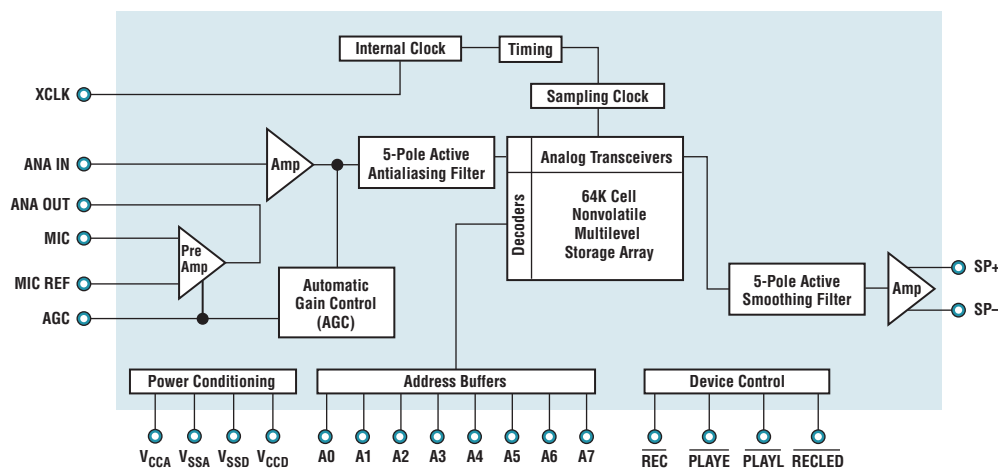
ISD1200 SERIES CAN BE USED IN VARIOUS APPLICATIONS:

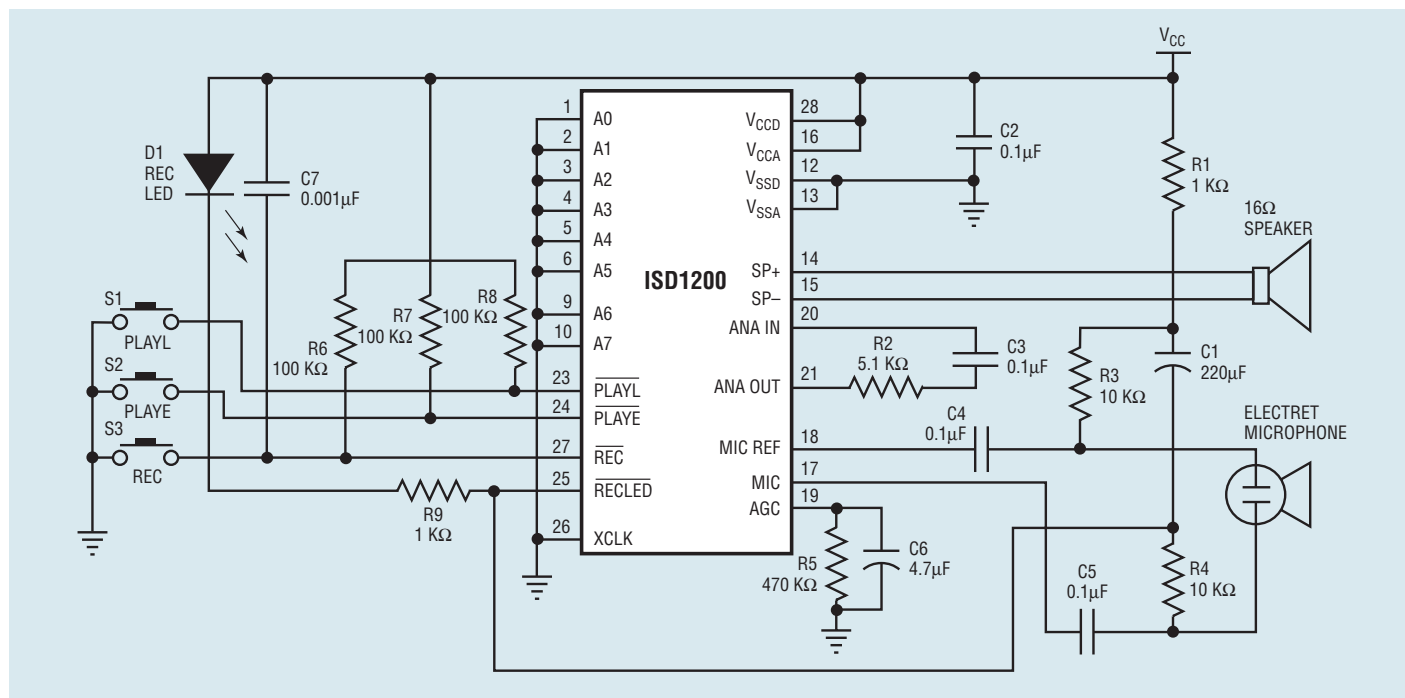
- Toys
- Portable recorders
- Promotional items
- Greeting cards
- Warning signs
- Novelties

FEATURES

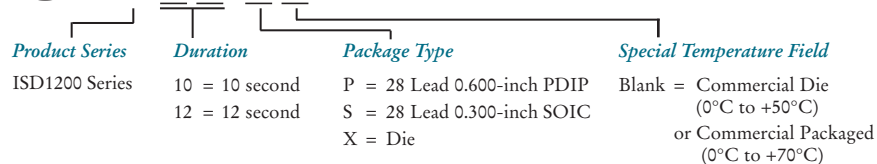
- Easy-to-use single-chip voice record/playback solution
- High-quality, natural voice/audio reproduction
- Push-button interface
- Playback can be edge- or level-activated
- Single-chip durations of 10 and 12 seconds
- Automatic power-down mode
- Enters standby mode immediately following a record or playback cycle
- Standby current 0.5 μ A (typical)
- Zero-power message storage
- Eliminates battery backup circuits
- Fully addressable to handle multiple messages
- 100-year message retention (typical)
- On-chip clock source
- No programmer or development system needed
- Single +5 volt power supply
- 100,000 record cycles (typical)
- Available in die form, PDIP and SOIC packaging

ISD1200 SERIES BLOCK DIAGRAM





	ISD1210 (10 Seconds)			ISD1212 (12 Seconds)		
	PDIP	SOIC	DIE	PDIP	SOIC	DIE
Commercial Die (0° to +50°)			●			●
Commercial Packaged (0° to +70°)	●	●		●	●	



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