$Home \ \ \ \ Product \ \& \ Sales \ \ Product \ Lines \ \ Consumer \ Electronics \ IC \ \ ISD \ \ ChipCorder \ @$

ISD15D00

Others

Part No.	ISD15D00						
Datasheet	dSD15D00.pdf						
Description	The ISD15D00 is a digital ChipCorder ® featuring digital compression, comprehensive memory management, and integrated analog/digital audio signal paths. The ISD15D00 utilizes serial flash memory to provide non-volatile audio playback for a two-chip solution. The ISD15D00 provides an I 2S digital audio interface, faster digital programming, higher sampling frequency, and a signal path with SNR 80dB. ISD15D00 is the The ISD15D00 can take digital audio data via I 2S or SPI interface. When I 2S input is selected, it will replace the analog audio inputs and will support sample rates of 32, 44.1 or 48 kHz depending upon clock configuration. When SPI interface is chosen, the sample rate of the audio data sent must be one of the ISD15D00 supported sample rates. The ISD15D00 has inbuilt analog audio inputs, analog audio line driver, and speaker driver output. The analog audio input, Aux-in, has a fixed gain configured by SPI command. Aux-in can directly feed-through to the analog outputs; it can also mix with the DAC output and then feed-through to the analog outputs. Analog outputs are available in two forms: (1) Aux-out is an analog single-ended voltage output; (2) Class-AB BTL (bridge-tied-load) is an analog differential voltage output. Class-AB BTL delivers 1-watt output power at VCCSPK = 5V.						
	Class-D PWM direct-drive is also available, which delivers 1-watt output power at V CCSPK = 5V						
Diagram	AUXIN COMPOST / SDI COMPOST /						
	External Memory:						
	The ISD15D00 supports the following flash:						
	Manufacturer	Winbond		Numonyx		MXIC	
	Family	25X 25Q	25P	25PX	25PE	25L / 25V	
Features	JEDEC ID						
Package	48L-LQFP						
Other Files	N/A						
Development Tools	ISD-ES15D00 U						
Others	N/A						

Feature Products

ARM Cortex[™]-M0 NuMicro[™] Family ISD ChipCorder®

ARM SoC N329 Family

Hardware Monitor Audio Enhancement

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Applications

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