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Abstract
Although ISO MPEG 1/2 standard is widely used in the network, wireless, multimedia system and video industry, and the MP3 digital music can be easily obtained from the Internet network or from CD disc market, but MP3 players are mostly realized with a PC or using a special-purpose decoder chip, the former has difficultly to carry-out and the later lacks the flexibilities for system expansion. In this paper a SOPC platform was used to realize a MP3 audio player design, and with the "SOPC Builder" to build-up a network MP3 receiver quickly. A Stratix FPGA from Altera Company was used as the main chip in the design, which was linked to an external network chip and two DAC chips. Various solutions of MP3 decoder design and theirs efficiencies were analyzed in this paper also.
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