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Abstract
Nowadays, the Multi-function Technologies all take the single or a few technologies as the foundations of them. Nevertheless, the Integrated Multi-function Technologies have become a new and hot technology in this field. Therefore, the research focus on this paper is to integrate a lot of functions into the voice media center becoming a multi-function voice media center. MELP and ADPCM will be applied into the audio function; many VOIP protocols are taking parts in the communication function.

VOIP is the main communication method in the multi-function voice media center. VOIP all take H.323 as their principles. But the core elements of the multi-function voice media center are protocols for audio, communication, and compression. Therefore we use the SIP (Session Initial Protocol) as the main protocol. We have completed the following functions and reached the goals below:

1. Improve the communication quality; the systems can operation more than one multi-media functions at the same time.
2. Improve the distortion condition in Analog Transmitting.
3. Integrated the functions of computer and telephone into the multi-media.
4. Integrated the function of Analog and Digital communication.
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