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Abstract
This paper discusses the USB transmission framework and how to implement a cheap and simple PC USB Internet phone device. The phone is connected to PC's Universal Serial Bus (USB) port. Analog signals such as voice/sound are digitized and transmitted to and/or received from PC through PC's USB interface. Both sides (caller and callee) can receive/transmit voice messages through Internet. If the user has an account with Internet telephone service providers such as Dialpad, Net2phone, iConnect Here, etc. then he can call PSTN users too.

The Internet phone of USB interface can be divided into two parts, Host: includes both USB device driver and application program. Device: USB micro-controller, PCM Codec, and firmware. This paper consists of the hardware and firmware design of the device. The USB plays an important role in computer peripherals and Internet phone also is the future of wire/wireless voice/data communication.
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