

Speaking device for deaf and dumb using PIC16F877A and APR Voice Module

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ABSTRACT

In today's world, there is a continuous need for automatic appliances with the increase in standard of living; there is a sense of urgency for developing circuits that would ease the complexity of life. This project is designed and developed to help the deaf and dumb people in their needs, using PIC16F877A microcontroller with voice module APR9600. The APR voice IC APR9600 has high levels of storage capability with its advanced non-volatile flash memory. The APR9600 samples incoming voice signals and stores the instantaneous voltage samples in non-volatile FLASH memory cells. Here we are using PIC microcontroller. Early models of PIC had read-only memory (ROM) or field-programmable EPROM for program storage, some with provision for erasing memory. All current models use flash memory for program storage, and newer models allow the PIC to reprogram itself. This device is designed to provide with a greater advantage producing voice based announcement for the users. Usually everyone don't know how to sign to dumb and deaf people, so it is easy to understand what they want to tell about their needs in their daily life. In this project it shows display and we can hear voice in required voice module.

REFERENCES

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