Winbond WTS701
Text to Speech
Reference Design
Description
Cellular Phone Accessory
The WTS701 is a high quality, fully integrated, single-chip Text-to-Speech solution that is ideal for use in applications such as automotive appliances, GPS/navigation systems, cellular phones and other portable products or accessories. The WTS701 product accepts ASCII (Unicode for Mandarin) input via a SPI port and converts it to spoken audio via an analog output or digital CODEC output.

The Reference Design hardware is based on the WTS701 processor and a Winbond 8051-type microcontroller. The microcontroller I/O pins are used to control the WTS701 as well as interface to a Wireless device (cellular phone) via a Serial-Bus. It also controls the LCD and the keypad. This reference design provides a basic working model for designing and constructing an operational Cell-Phone accessory product that retrieves SMS and Caller ID text messages from a cell-phone and automatically converts them to speech.

The reference design software modules (C language for 8051-type microcontroller), hardware schematics and complete documentation are available to qualified customers on request.

**System Block Diagram**
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