

TextSpeak™



*... speech generation
that's as simple as
it sounds !*

The world's first AAC speech generator in a 4"x5" package

- **Wirelessly connects** to keyboards and generates **unlimited vocabulary** speech
- Wireless keyboard included. Optionally supports most standard and special needs keyboards
- A **perfect on-the-go AAC solution**. Instant on, no setup, low cost and simple to use.
- Works with telephones
- Light and portable. AC and Battery powered
- Supports English and Spanish in both Male and Female voices

Unlimited vocabulary

Talks as you type

No PC required!

- Intelligent text generating speaker and keyboard combo creates speech anywhere, right at your fingertips
- Great for students who need unlimited vocabulary
- **Works without a computer**
- Speech generating using DSP based Text to Speech
- **Works right out of the box**
- 30 programmable phrases



Perfect for classrooms

Simple child learning tool

Easy to use

Completely portable

Available in 2 voices

TextSpeak

Westport, CT
U.S.A
203-803-1069

Size and Weight

- TS-04 Speech Generating Speaker and with wireless receiver
 - L: 5.3 inches W: 4.0 inches H: 1.5 inches W: 10 oz
- TS-04 Wireless Keyboard
 - L: 13 inches W: 7 inches H: 1.2 inches W: 1 lb 2 oz

Power and Battery

- Speaker Operation
 - 9 Volt AC Adaptor
 - Battery 9V Alkaline MN1604 or equiv
 - Battery Life based normal use; 80 hours
- Keyboard Operation
 - Auto Power On/Off
 - Battery 2 AAA Alkaline
 - Battery Life based normal use; 6-12 months

Keyboard Access

- Wireless standard key, compact keyboard, 10 foot range
- Wired interface accepts PS/2 and USB PC compatible keyboards

What's In The Box?

- TextSpeak TS-04 Speech Generating Speaker
- TextSpeak wireless keyboard
- Power transformer for DC operation
- Batteries
- Warranty information (1 year)
- Instruction manual

Price breakthrough! Speech generation with groundbreaking opportunity for ownership. Prices starting below \$500

Ordering Information:

- TS-04-W** Speaker and wireless keyboard
- TS-04-LK** Speaker and wired Large Key keyboard
- TS-04-NK** Speaker without keyboard

Contact us: Tel (203) 557-0222 Fax: (866) 408-4937 sales@textspeak.com

Technical – How the TS-04 Works

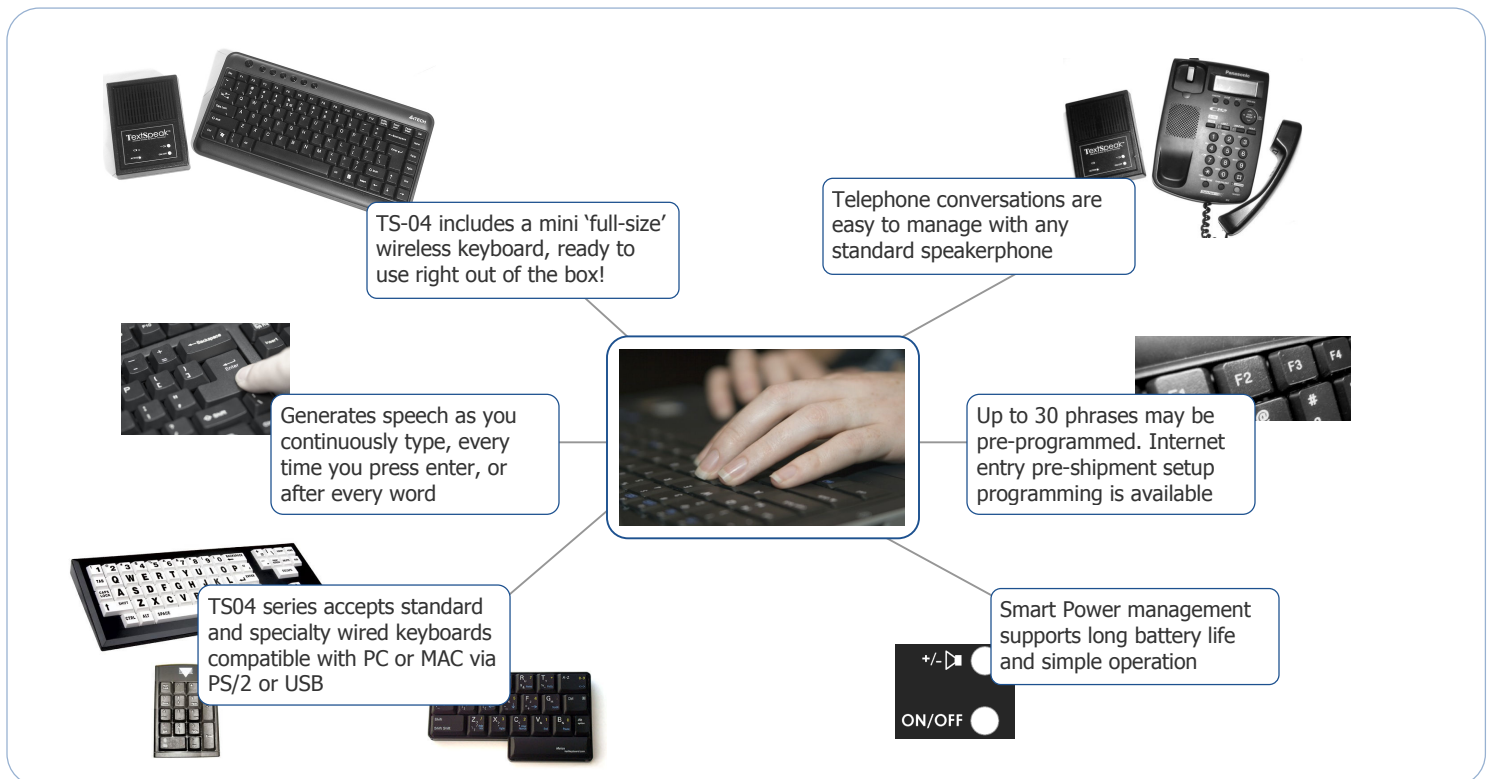
- Unlimited Phoneme Based Word creation
- Real time conversion for continuous text generation
- English dictionary modeled for male and female speech
- 24 MHz Flash based DSP processor with integrated codec
- 2KB Flash hold 30 Item Index of 60 characters each for phrase storage
- Sleep mode power use below 150 mW

The TS-04 Speaker performs text-to-speech synthesis based on concatenative samples. The units for sampling can vary from whole words down to phoneme markers. A corpus of pre-recorded words is stored in onboard Flash memory using patented multilevel storage (MLS) memory and a mapping of the various sub-word parts is held in a lookup table. The speech creation concatenates speech elements to produce words. Speech may be generated in real time, with unlimited vocabulary. Speed and volume generation are keyboard controlled after power-up.

The system process flow includes data reception, text normalization, phoneme mapping, MLS, memory and audio D/A conversion.

TS-04 Keyboard/Speaker radio links utilize 2.4 GHZ channel hopping transceivers. External keyboards are interfaced via auto-detecting PS/2 or USB keyboard connectors.

OPERATION AND FEATURE SUMMARY



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