

# 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
- Full size keyboard included. Expands to support 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 & portable. AC and Battery powered
- Available in Male and Female voices

**Unlimited vocabulary**

**Talks as you type**

**No PC required!**

- Intelligent text generating speaker and keyboard combo put speech anywhere, right at your fingertips
- Great for students who need unlimited vocabulary
- **Works without a computer**
- Benefits patients with both temporary and long term needs
- **Works right out of the box**
- 30 programmable phrases



**Perfect for classrooms**

**Assists in out-patient care**

**A low cost temporary aid**

**Completely portable**

**Durable and flexible**

TextSpeak

Westport, CT

U.S.A

203-557-0222

[www.textspeak.com](http://www.textspeak.com)

Incorporates advanced Digital Acoustics® technology, created and built by TextSpeak Design Group, U.S.A

**Size and Weight**

- TS-04 Speech Generating Speaker
  - 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 (est) 100 Hours based on 10 minutes/hour use
- Keyboard Operation
  - Auto Power On/Off
  - Battery 2 AAA Alkaline
  - Battery Life (est) 6-12 months

**Keyboard Access**

- Wireless QWERTY full size, compact style keyboard, 10 foot range

**What's In The Box?**

- One TextSpeak TS-04 Speech Generating Speaker
- One TextSpeak Wireless Keyboard
- Power transformer for DC Operation
- Batteries
- Instruction manual

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

**Ordering Information:**

- Models
- TS-04** 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**

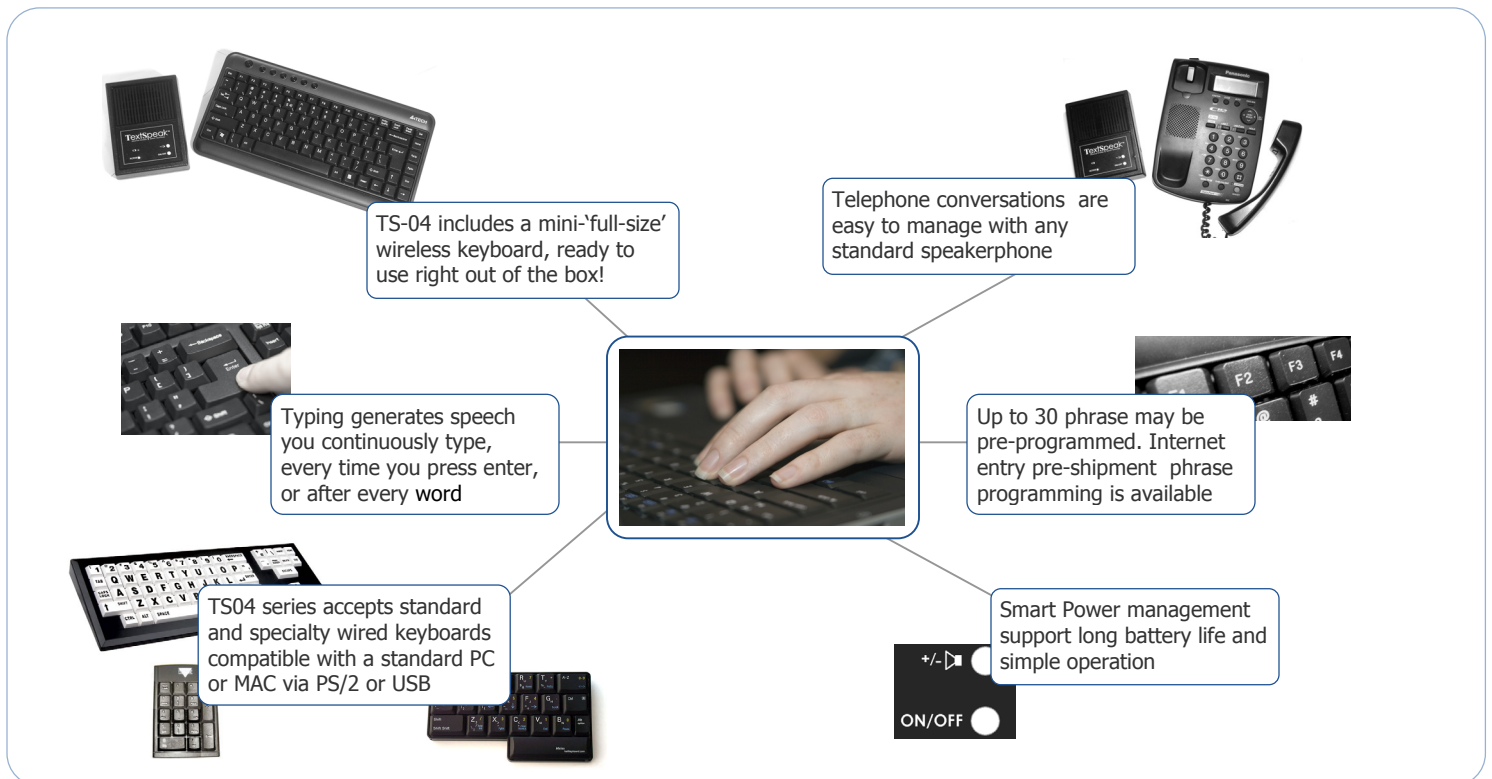
- Unlimited Phoneme Based Word creation
- Real time conversion for continuous text generation
- English dictionary modeled for male and female speech
- 24 MHz Flash Based DSP Processor with integrated Codec
- 2KB Flash hold 30 Item Index of 60 characters each for phrase storage
- Sleep mode power use 125 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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