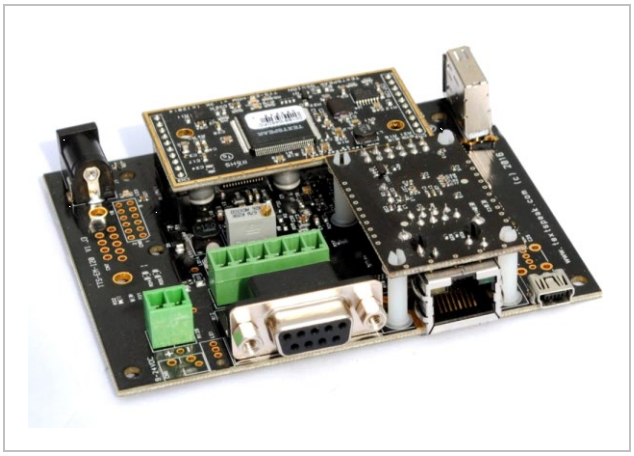

# TTS EM-HD3-E

## High definition, world–language best-in-class Text to Speech module

Human sounding speech synthesis in a modular, scalable interface. Seamless integration, simple operation.

Real-time voice announcements generated directly to speakers from text in RS-232 and Ethernet data

- **Convert existing deployments of dynamic visual display data directly to voice.**
- **Ready to interface to single endpoint speakers or large paging systems.**
- **Over 20 international languages and voices supported.**

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The TTS-EM-HD3-E offers a complete Text to Speech platform with an integrated high definition 25 W audio paging amplifier. Sophisticated ambient noise detection optionally controls up to 20 db of volume automatically, meeting customer demands for clarity in environments with dynamic noise activity. Typical deployments include transportation centers, public places and industrial installations. RS-232 and Ethernet connectivity offers simple setup, management and control using TX/RX serial streams. Text to Speech generation includes support for dictionary management, in-line control codes and dynamic language and voice changes.

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- Text to Speech supports up to 9 concurrent TTS languages or gender voices. Choose from over 24 voices.
- High Definition amplifier offers unparalleled intelligibility and direct drive for paging system speakers
- Highly integrated OS provides superior flexibility and support for remote upgrade and file transfers
- Seamless switching from TTS to/from user stored pre-recorded audio files using inline control codes
- Integrated command and control language provides complete user control from remote locations
- Flexible power options permits powering from a wide voltage range of 9 to 24 volts
- Ambient noise sensing uses speakers to simplify installs. LEDs and terminal report real-time noise levels and volume.
- User definable power regulation permits 3, 8 and 25 watt operation to protect downstream speakers from overload
- Flash based, with upgradeable file transfer support and dictionary management
- Simple integration into EXISTING products. No special programming required.

Arabic Chinese Czech Danish Dutch English (UK) English (US) Finnish French (F) (B) (C)
German Greek Japanese Korean Italian Norwegian Polish Turkish Portuguese Russian Spanish (NA) (C) Swedish

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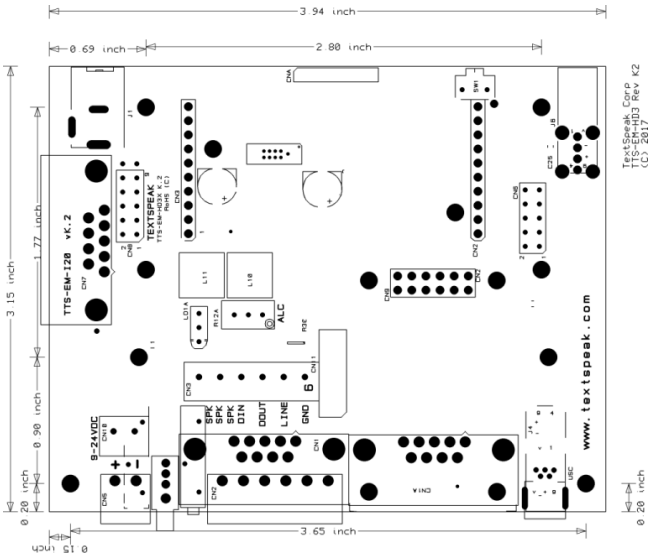
• Alarm & Security • Health Care • Signage to Audio • Machine Interfaces • Mass Notification • Industrial Status
• Transit Systems • Assistive Speech • ADA Compliance

TextSpeak

## SPECIFICATIONS

**Core Technology** earBridge® and TextSpeak 3rd Generation TTS
**Languages supported:** Arabic Chinese Czech Danish Dutch English (UK) English (US) Finnish French (F) (B) (C) German Greek Japanese Korean Italian Norwegian Polish Turkish Portuguese Russian Spanish (NA/C) Swedish (*Contact us for latest list)*
**Network Interface** 10/100 Base-T Ethernet, Auto-MDIX
**Serial Interface** RS-232 9600 to 115KBS
**Control Network Protocols** TCP/IP Broadcast , FTP, UDP, Web interface
**IP Address Assignment** Static, DHCP
**Prerecorded file support Protocol** 16bit PCM/uLaw
**Speaker Out** Dual Amplifiers, Spkr1 25 watt/8 ohms Spkr2 8-25 watt/8 ohms
**Line Out –10dbm Typical** 1v p/p
**Manual Volume Adjustment** 10 4db/steps, Digital (Spkr1/2) and trimpot (Sprk2)
**Ambient Noise Detection** Spkr1 60-90db SPL Spkr2 : N/A
**Automatic Level Control** 12db/20 db selectable over 30db of Ambient noise
**Expansion Interfaces** Activation Switch with location sounder, 12 key keypad
**Power (Nominal)** 9-36V (12v/8 watt power out) (24v/25w power out)
**Remote Programming** Flash programmable via USB, Ethernet, Serial
**Fault Management** Short circuit speaker recovery fault detection
**Connector I/O** 3.81 MM DIN Plugables, RJ45, USB-B, 2.1MM power
**Temperature** -30~70 C (Operating), -40 C~85 C (Storage)
**Size** 100mm x80mm x 16mm **Weight** 85 g (3oz) **Model** TTS-EM-HD3-E

## DIMENSIONS




## Command and Control

**Operation and Sample Control Code**

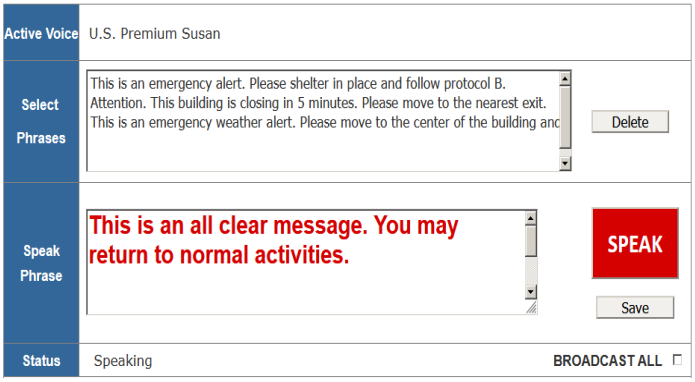
**Basic TTS generation is SIMPLE.... Just send ASCII data and terminate with ENTER <CR> to generate speech.** Additional inline control codes manage advanced operation (such as mixing TTS with pre-recorded wav or mp3) as well as buffer management. For basic operation, send text and add "Enter" <CR> to talk.

**Hello I can talk! <CR> and change volume, and languages on the fly! <CR>**

This sample text demonstrates both spoken and non-spoken data with pre-recorded audio files. (tone1.wav and tone2.wav are factory recorded files).

ESC p"\tone1.wav" Express 32, arriving in 2 minutes on track 12, for all points South. DLE EM This text is in-line data that is not spoken by the TTS processor DLE RS Please expect delays ESC p"\tone2.wav". End of test. CR

Refer to the HD3 User Guide for a comprehensives list of inline codes to switch voices dynamically, control modes and modify dictionary for pronunciation changes.




Integrated Web Browser for direct Text to Speech

## TEXTSPEAK ® EULA Text to Speech End User License Restrictions

The end user is licensed to use the TTS-EM for speech generation for real-time Text to Speech conversation and playback in a public place. The end user may not use the TTS-EM to record and/or save audio in stored files to be used to playback or broadcast in any public place.

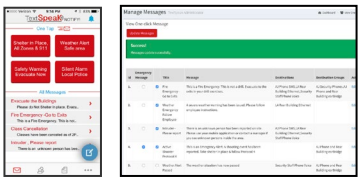
## TEXTSPEAK ® PRODUCT FAMILY

**Ethernet. WiFi ,Cellular, Serial**

**Modules for OEM**

**Flexible Add-Ins**

**Mobile and Cloud Applications**



This document may contain advance information. Contact TextSpeak factory for technical specification before product design and/or use. Design and specifications are subject to change without notice. TextSpeak' product designs are packaged by leading manufacturers around the world. earBridge® is a registered trademark. © 2014-2021 TextSpeak Corporation See www.textspeak.com/patents for patent and patents pending (EM-HD3-E 1.4)

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