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# Z8917500ZCO

## Z89175/176 VOICE PROCESSING EVALUATION KIT

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### FEATURES

■ Supported Devices:

Packages	Emulation
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100-Pin QFP	Z89175
100-Pin QFP	Z89176

■ Fully Digital Answering Machine Capability

■ Caller ID Support

■ Date and Time Stamping

■ High-Quality Voice

■ Z89175 Evaluation Kit Software

■ DTMF Detection/Generation

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### GENERAL DESCRIPTION

Zilog's Z89175 Voice Processing Evaluation Kit (Z8917500ZCO) demonstrates the fully digital answering machine capabilities of the Z89175 and Z89176 voice processing devices, including LPC speech generation, voice compression/expansion, and DTMF encoding/decoding.

The Z89175/176 Evaluation Board features:

- On-chip CODEC that provides demonstration for the Memo and Incoming Message functions.
- Caller ID On-Hook function with LCD display.

- One Samsung KM29N040, 512 x 8-bit FLASH memory with expandability for a second KM29N040.

The Z89175 Evaluation Kit can be used to develop and debug Z8<sup>®</sup> application code with the Z89175 Toolbox Software (included in this kit) and the C65 ICEBOX™ Emulator (Z89C6501ZEM, not included in this kit). No DSP code writing is necessary. The Z89175 Voice Processing Evaluation Kit provides a complete suite of software aids: application code, DSP code, and toolbox code to assist in evaluation and development of 175/176-supported applications.

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### SPECIFICATIONS

#### Operating Conditions

Operating Temperature: 25°C, ±10°C

#### Power Requirements

+12 VDC @ 500 mA

#### Dimensions

Width: 4.25 in. (10.8 cm)

Length: 5.75 in. (14.61 cm)

Height: 4.5 in. (11.43 cm)

## KIT CONTENTS

### Z89175 Evaluation Board

Circuit Board

On-Board Operation Instructions

4 x 16 Character Liquid Crystal Display (LCD)

Two-Inch Speaker

### Support Hardware

12 VDC Power Supply

68-PLCC Adapter

100-QFP Adapter

Z8 I/O Expander

Telephone Cord

### Evaluation Kit Software Diskette

Application Code

DSP Code

Toolbox Code

### Documentation

Z89175 Evaluation Kit User's Manual

(Includes Kit Schematic and Bill of Material)

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## SOFTWARE DEVELOPMENT REQUIREMENTS (OPTIONAL)

### Host Computer

IBM PC (or 100-percent compatible) 386-based machine running Microsoft Windows 3.1. For increased performance, the following is recommended: 486- or Pentium-based machine, 66 MHz (or faster), 8 MB of RAM (or more), SVGA video adapter, color monitor, and printer.

**Note:** Exact host computer requirements are dependent on which particular support tools are used.

### Support Tools

Z89175 Evaluation Kit Software

Z8 Assembler

C65 ICEBOX Emulator (Z89C6501ZEM)

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