TelCom
Semiconductor, Inc.

TC530EV

EVALUATION SYSTEM FOR TC53x A/D CONVERTERS

FEATURES

- **Evaluation and Prototyping Kit for TC530/534**
- **Pre-programmed Control Processor for Easy Operation with Any RS232 Terminal, Personal Computer, etc.**
- **User Interface Allows Programming System Parameters and Displaying / Logging Data Using High-level Commands**
- **Prototyping Area for User Application Circuitry**
- **On-board Positive Voltage Regulator and Negative Supply Generator for Single Supply Operation**
- **Can be Used as a TC53x Control Emulator for System Debugging**
- **Windows™ *Terminal*™ and Microsoft™ *Excel*™ Support Files Included - No Circuit Design Required!***

GENERAL DESCRIPTION

TC530EV is an evaluation and development system for TelCom's TC53x family of dual slope integrating converters. The TC530EV consists of the TC534 A/D converter; a pre-programmed microcontroller; a negative supply generator; +3.0V regulated power supply; and user prototyping area.
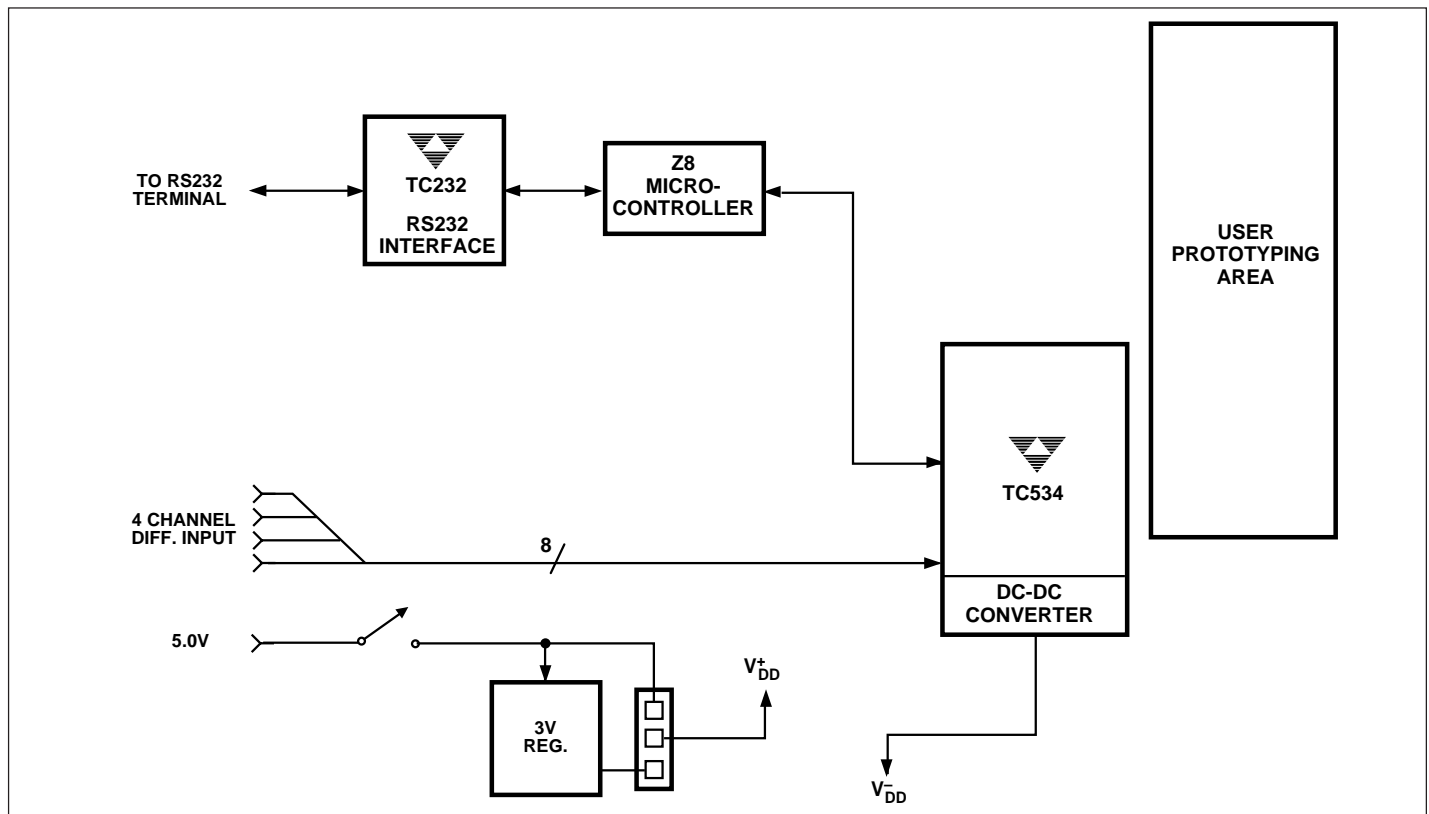
TC530EV connects to any RS232 terminal. Typically the host is an IBM PC compatible or other personal computer running a communications program such as Windows™ *Terminal*,™ or a dumb terminal.* The user supplies a fixed 5.0V power supply and an RS232 cable.

The TC530EV Evaluation System functions as a complete data acquisition system with maximum resolution of 17 bits (+ Sign). Conversion data is accessed via the RS232 interface. Conversion speed and resolution are programmable. Jumpers allow the user to select factory-installed values for the integrating resistor and capacitor, or to install specific values to better suit a specific application.

A software utility in the form of an *Excel™* spreadsheet is included that calculates all components' values given the desired system parameters.* No design required!

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FUNCTIONAL BLOCK DIAGRAM

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