ANALOG SIGNAL PROCESSING—DTMF & CALLER ID

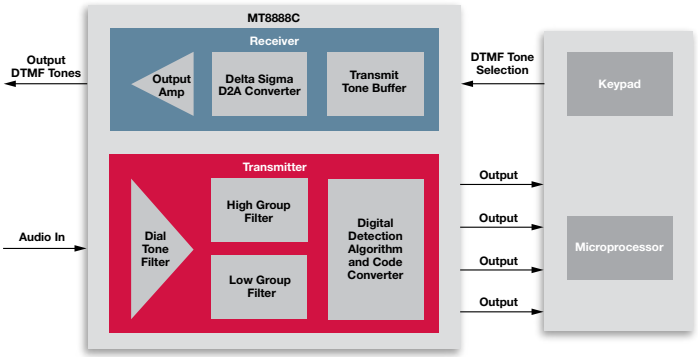
PRODUCT OVERVIEW

DTMF

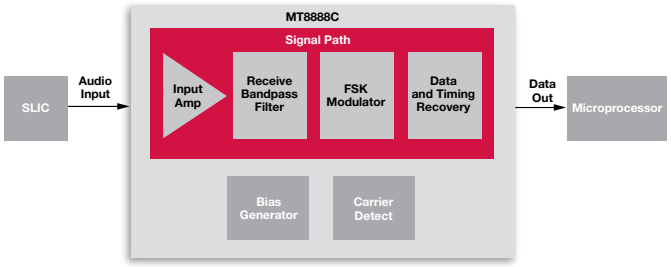
Zarlink's complete line of DTMF products offer 3 V or 5 V operation, power-down modes, call progress tone detection, parallel and serial microcontroller interface, adjustable tone guard-time and tone detect dynamic range options. A new series of wide dynamic range DTMF receivers utilizing a lower cost and commonly available color burst oscillator enable customers to decrease their overall BoM costs. Our DTMF devices are well-suited for telephone answering machines, fax machines and security systems.

MT8888C DTMF Transceiver

- Monolithic DTMF transceiver with call progress filter
- Receiver section based on industry-standard MT8870 DTMF receiver, transmitter utilizes a switched capacitor D/A converter for low distortion, high accuracy DTMF signaling
- Internal counters provide a burst mode that allows tone bursts to be transmitted with precise timing
- Selectable call progress filter allows microprocessor to analyze call progress tones
- Intel microinterface allows device to be connected to a range of popular microcontrollers with minimal external logic



MT8888C Simplified Block Diagram



MT88E39 Simplified Block Diagram

Caller ID

Zarlink's line of CNIC (Calling Number Identification Circuit) devices support Type-1 and Type-2 CPE features, including VMWI (Visual Message Waiting Indicator), CND (Calling Number Delivery), CNAM (Calling Name Delivery), CIDCW (Calling Identity Delivery on Call Waiting) and ADSI (Analog Display Services Interface). Applications include full feature POTs and VoIP phones, faxes, answering machines, caller ID adjuncts, and DECT systems.

MT88E39 Calling Number Identification Circuit (CNIC1.1)

- Integrated CNIC1.1 provides an interface to calling line information delivery services that utilize 1200 baud Bell 202 or CCITT V.23 FSK data transmission schemes
- Receives and demodulates the FSK signal and outputs the data into a simple dual mode 3-wire serial interface, eliminating need for an UART
- Bellcore, ETSI and NTT compatible and can operate in 3 V and 5 V applications

ZARLINK SEMICONDUCTOR

ANALOG SIGNAL PROCESSING—CODECS & SLICs

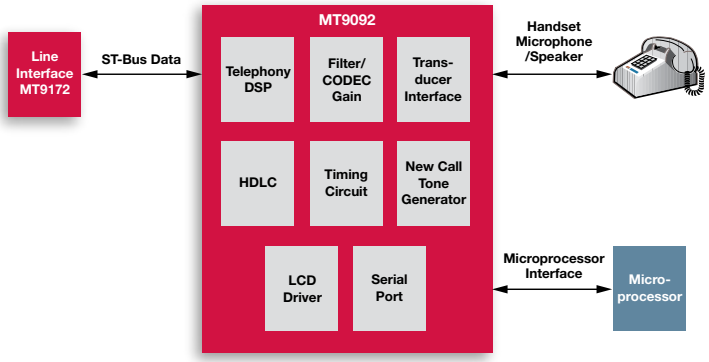
PRODUCT OVERVIEW

CODECS

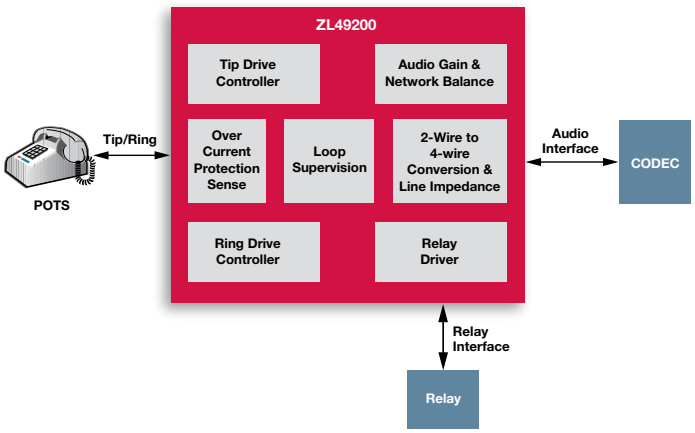
The MT8960-7 series of Voice Codecs integrate all functionality necessary to encode/decode voice band analog signals using Pulse Code Modulation (PCM). These codecs are used in a variety of applications including, converged PBXs, Central Offices and digital telephones.

MT8960/1/2/3/4/5/6/7 Features

- ST-BUS compatible
- Meets AT&T D3/D4 and CCITT G711 and G712
- µ-Law: MT8960/62/64/67, A-Law: MT8961/63/65/67
- Digital Coding Options: CCITT Code and Alternative Code
- Digitally controlled gain adjust of both filters
- Analog and digital loopback
- Power-down mode available
- 2.048 MHz master clock input
- Up to six uncommitted control outputs +/-V +/-5% power supply



MT9092 Simplified Block Diagram



ZL49200 Simplified Block Diagram

ZARLINK SEMICONDUCTOR

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