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[Home](#) ▶ [Voice Line Circuits](#) ▶ [VE950 - General Purpose Ringing SLIC](#) ▶ [LE9530](#)

LE9530

Dual Channel Ringing SLIC

Not recommended for new designs.

Use [LE9540](#) instead.

[Overview](#) | [Docs & Specs](#) | [Applications](#) | [Packaging](#)

The Le9530 Dual Ringing SLIC device is a dual-channel device optimized to provide battery feed, ringing, and supervision on voice loops found in short-loop VoIP applications. This device is optimized to interface to the Broadcom BCM3378/3380/3382 and BCM6816 devices, or a similar codec. The Le9530 device operates independently from a single, user-adjusted battery and a +3.3 V VCC per channel. Each channel provides forward and reverse battery feed, voice transmission, power ringing, an ultra low-power scan state, ground start (Tip open), and a disconnect state. A test load switch is also included to support integrated test algorithms.

Features & Benefits

- Dual Architecture
 - Two fully independent integrated SLIC channel
 - No impulse noise crosstalk in any operation states to the listening channel in forward or reverse active states
- Two Power Supplies
 - Single user adjusted battery input per channel
 - 3.3 V for VCC
- High Voltage Design
 - Meets Comcast Ringing requirements without clipping distortion
 - Robust solution with no damage during extended ringing cycles or switching the ringer on and off
 - Allows use of 50 Ω protection resistors and lower cost lower current rated protectors
 - Two Grades
 - Up to -145 V ringing battery Le9530D
 - Up to -100 V ringing battery Le9530C
- Channel Independent Eight Operating States
 - Scan state for minimal power dissipation
 - Active Forward Battery 25mA DC Current Limit
 - Active Reverse Battery 25mA DC Current Limit
 - Active Forward Battery 40mA DC Current Limit
 - Active Reverse Battery 40mA DC Current Limit
 - Tip Open Ground Start

- Ringing
- Disconnect (Default Power Up Mode)
- Per Channel Ringing Inputs for Optimized Interface to BCM SoC Devices
 - Allows to accept driving signals from per channel voice outputs as well as from PWM outputs
- Ultra-Low On-Hook Power
- Loop Start, Ring Trip, and Ground Start Detections
 - Loop closure detection with hysteresis to minimize dial pulse distortion
- Thermal Shutdown Protection with Hysteresis
- Test Load Switch
- Supports integrated test algorithms

Products

- [Voice Line Circuits](#)
 - [miSLIC Series – High Performance Line Circuits](#)
 - [ZL880 - Enhanced Dual Channel Wideband FXS Line Interfaces](#)
 - [VE880 - FXS and FXO Line Interfaces](#)
 - [VE890 - Integrated FXS/FXO Line Interface](#)
 - [VE950 - General Purpose Ringing SLIC](#)
 - [LE9551](#)
 - [LE9540](#)
 - [LE9541](#)
 - [LE9530](#)
 - [Le9531](#)
 - [LE9520](#)
 - [LE9500](#)
 - [VE792 - Next Generation Carrier Chipset](#)
 - [VE790 - High Performance Programmable Chipset](#)
 - [VE750 - Line Card Access Switches](#)
 - [VE580 - General Purpose SLICs and Codec](#)
 - [VE770 - SLIC/Codecs with \(DTMF\)](#)
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