



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Features

- **Economical, fifth-generation line interface solution for VoIP processors and SoCs**
- **Smaller, 48-pin 7x7 mm QFN package**
- **Dual Channel Architecture**
- **Single port 4-wire interface control (ZSI)**
  - Compatible with numerous VoIP processors and SoC solutions
  - Less expensive isolation than multi-port control
  - Simplifies board routing
- **VoicePath SDK and VP-API-II Software available to implement FXS functions**
- **VeriVoice Professional Test Suite Software**
  - Comprehensive subscriber loop testing, including *Telcordia GR-909-CORE / TIA-1063* diagnostic testing
  - Industry leading advanced test software
- **VeriVoice Manufacturing Test Package (VVMT)**
  - Facilitates factory testing and calibration of assembled boards
- **Low cost, Energy Efficient Shared Switching Regulator Architecture**
  - Dual Output power supply
  - Integrated battery switches
  - Up to 70 V<sub>RMS</sub> open circuit ringing with 5 REN load
- **Low cost, 2-Layer PCB Reference Designs**
- **Complete Wideband BORSCHT functionality**
- **Worldwide Programmability**
- **Per channel Narrowband or Wideband operation**

## Applications

- **Fixed Wireless (LTE) Gateways**
- **DSL Residential Gateways and Integrated Access Devices (IADs)**
- **Cable Embedded Multimedia Terminal Adapters (eMTAs)**
- **PON Single Family Units (SFU)**
- **Fiber-to-the-premise (FTTX) solutions**

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### Ordering Information

| Device OPN | Device Type | Package    | Packing     |
|------------|-------------|------------|-------------|
| Le9642PQCT | SLIC, BBABS | 48-pin QFN | Tape & Reel |
| Le9642PQC  | SLIC, BBABS | 48-pin QFN | Tray        |

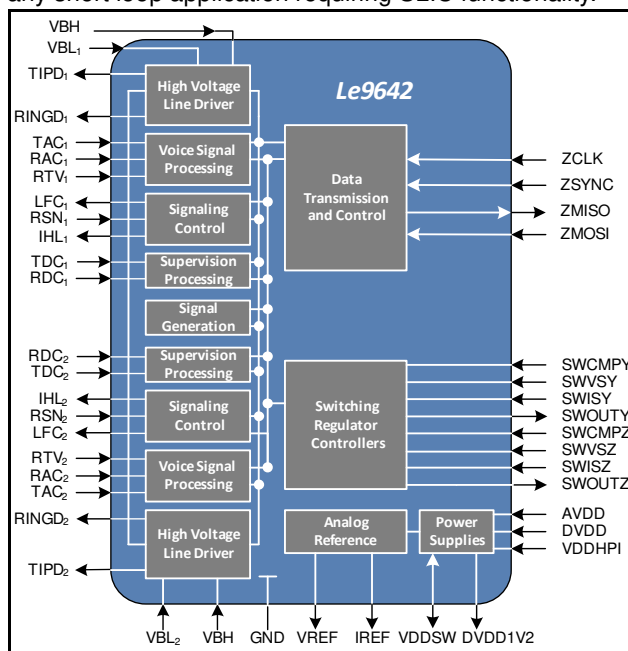
*This Green package meets RoHS 2 Directive 2011/65/EU of the European Council to minimize the environmental impact of electrical equipment.*

## Description

The miSLIC™ Line Circuits together with a VoIP processor or SoC, provides an economical turn-key solution for derived voice applications. The miSLIC devices are controlled by a VoIP processor or SoC through a simple, single serial interface.

The dual channel Le9642 miSLIC device uses an energy efficient shared power supply topology for reduced BOM cost. The Le9642 can be configured for patent-pending shared Buck-Boost Automatic Battery Switching (BBABS) operation. Ringing and system power management are supported to limit the peak power requirements of each telephone line FXS port. The dual channel Le9642 features wideband clarity and complete BORSCHT functionality.

Manufacturing self test and subscriber line diagnostics are available features. All AC, DC, and power parameters are programmable making the Le9642 device suitable for any short loop application requiring SLIC functionality.



**Figure 1 - Le9642 Block Diagram**



