

L9312 Line Interface and Line Access Circuit Forward Battery SLIC, and Ringing Relay for TR-57 Applications

Introduction

The L9312 is a combination full-feature, ultralow-power SLIC, and solid-state ringing access relay. It is part of a pin-for-pin compatible family of devices designed to serve a wide variety of applications. The L9312 is optimized for TR-57 access, forward battery only, applications.

Features

SLIC

- 5 V and battery operation
- Optional automatic battery switch
- Four operational modes
- Appropriate for 58 dB longitudinal balance applications
- Minimal external components required at all interfaces
- Ultralow power dissipation
- Software/hardware adjustable dc parameters and supervision thresholds

Solid-State Ring Relay

- Low impulse noise
- Current-limited switches/thermal protection

Applications

- Pair Gain
- Digital Loop Carrier (DLC)
- Central Office (CO)
- Fiber-in-the-Loop (FITL)

Description

The L9312 electronic line interface and line access circuit (LILAC) provides all the functions that are necessary to interface a codec to the tip and ring of a subscriber loop, integrating the battery feed and ringing access relay in one low-power, low-cost package.

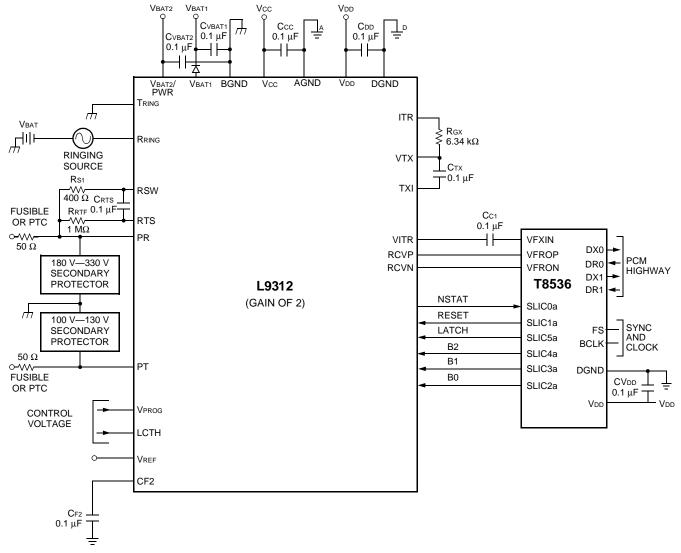
The L9312 requires a 5 V and battery supply to operate. Included is an automatic battery switch. The battery feed offers forward battery and on-hook transmission. It also has a low-power scan and a disconnect mode.

In all operating states, this IC is designed for minimal power dissipation. This device is designed to minimize the number of external components required at all interfaces.

The dc template, current limit, and overhead voltage and loop supervision threshold are programmable via an applied voltage source. The voltage source may be an external programmable voltage source or derived from the VREF SLIC output.

The integrated solid-state switch offers power ringing access. Impulse noise is minimized, thus eliminating the need for external zero-cross switching circuitry.

Application



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For additional information, contact your Microelectronics Group Account Manager or the following:

INTERNET: http://www.lucent.com/micro E-MAIL: docmaster@micro.lucent.com

N. AMERICA: Microelectronics Group, Lucent Technologies Inc., 555 Union Boulevard, Room 30L-15P-BA, Allentown, PA 18109-3286

1-800-372-2447, FAX 610-712-4106 (In CANADA: 1-800-553-2448, FAX 610-712-4106)

ASIA PACIFIC: Microelectronics Group, Lucent Technologies Singapore Pte. Ltd., 77 Science Park Drive, #03-18 Cintech III, Singapore 118256 Tel. (65) 778 8833, FAX (65) 777 7495

Microelectronics Group, Lucent Technologies (China) Co., Ltd., A-F2, 23/F, Zao Fong Universe Building, 1800 Zhong Shan Xi Road, Shanghai

200233 P. R. China Tel. (86) 21 6440 0468, ext. 325, FAX (86) 21 6440 0652 Microelectronics Group, Lucent Technologies Japan Ltd., 7-18, Higashi-Gotanda 2-chome, Shinagawa-ku, Tokyo 141, Japan JAPAN:

Tel. (81) 3 5421 1600, FAX (81) 3 5421 1700

Data Requests: MICROELECTRONICS GROUP DATALINE: Tel. (44) 7000 582 368, FAX (44) 1189 328 148 EUROPE:

Technical Inquiries: GERMANY: (49) 89 95086 0 (Munich), UNITED KINGDOM: (44) 1344 865 900 (Ascot), FRANCE: (33) 1 40 83 68 00 (Paris), SWEDEN: (46) 8 594 607 00 (Stockholm), FINLAND: (358) 9 4354 2800 (Helsinki),

ITALY: (39) 02 6608131 (Milan), SPAIN: (34) 1 807 1441 (Madrid)

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