LE9540DUQC

SLIC 3.3V 40-Pin QFN Tray

Manufacturer:	Microchip Technology, Inc
Package/Case:	QFN
Product Type:	Communication & Networking ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

The Le9540 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 with a serial bus to interface to the Broadcom BCM3383/84/85/90 cable SoCs and BCM6818/28/38 PON SoCs. The Le9540 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.

Key Features

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 Le9540D

Up to -100 V ringing battery Le9540C

Channel Independent Eight Operating States

Scan state for minimal power dissipation

Active Forward Battery (Default Power Up State)

Active Forward Battery ICV

Active Reverse Battery

Tip Open Ground Start

Wink

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

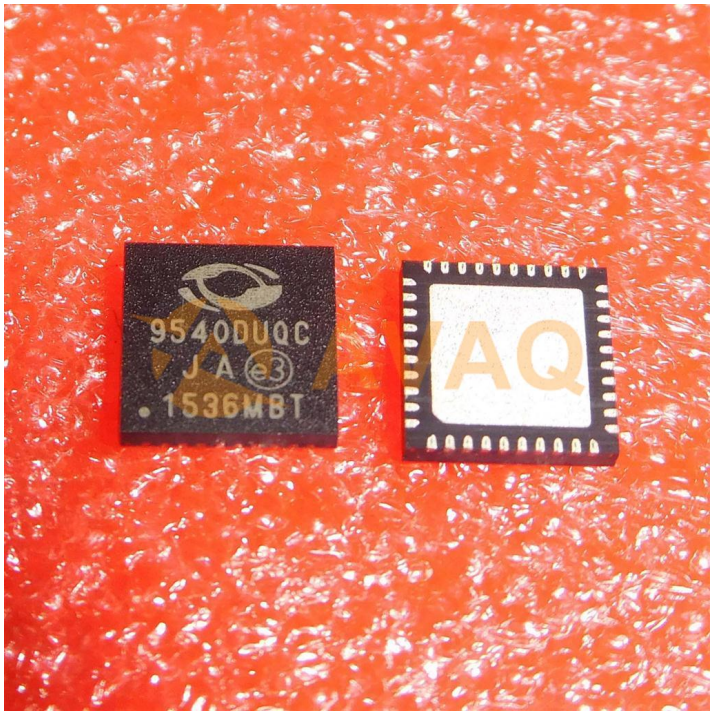
Loop Start, Ring Trip, and Ground Start Detections

Loop closure detection with hysteresis to minimize dial pulse distortion

Thermal Shutdown Protection with Hysteresis

Test Load Switch

Supports integrated test algorithms



Recommended For You

Le79Q2281DVC
Microchip Technology, Inc
QFP

Le9641PQC
Microchip Technology, Inc
QFN

LE79252BTC
Microchip Technology, Inc
QFP

LE88266DLC
Microchip Technology, Inc
QFP

Le88830KQC
Microchip Technology, Inc
QFN

Le58QL021BVC
Microchip Technology, Inc
QFP

Le9530DETC
Microchip Technology, Inc
QFP

Le79124KVC
Microchip Technology, Inc
QFP

LE89900AMC
Microchip Technology, Inc
MSOP10

LE79R241DJC
Microchip Technology, Inc
PLCC32

Le79555-2BVC
Microchip Technology, Inc
TQFP44

LE57D121BTC
Microchip Technology, Inc
QFP

LE9500DBJC
Microchip Technology, Inc
PLCC28

LE79R79-1DJC
Microchip Technology, Inc
PLCC32

LE79555-2BVCT
Microchip Technology, Inc
44-TQFP