


## SLIC 2-CH 67dB 120mA 5V 44-Pin LQFP EP Tray

<b>Manufacturer:</b>	<a href="#">Microchip Technology, Inc</a>
<b>Package/Case:</b>	QFP
<b>Product Type:</b>	Communication & Networking ICs
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Obsolete



Images are for reference only

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### General Description

The innovative Le57D121 dual-channel SLIC device is designed for high-density POTS applications requiring a small-footprint, low-power SLIC device. By combining a fully featured line interface of two channels into one SLIC device, the Le57D121 device enables the design of a low-cost, high performance, and fully programmable line interface for multiple country applications worldwide, including Ground Start and metering capability. The on-chip Thermal Management (TMG) feature allows for significantly reduced power dissipation on the device. Optional dual battery operation to reduce total power consumption is also available. The device is offered in a thermally efficient, space-saving 44-pin eTQFP package. The 12 x 12 mm footprint allows designers to make a dramatic increase in the density of lines on a board. The Le57D121 device is also designed to significantly reduce the number of external components required for line card design. Microsemi offers a range of compatible SLAC devices that perform the codec function in a line card. In particular, the Quad and Octal SLAC devices combined with the Le57D121 device provides a programmable line circuit that can be configured for varying requirements.

## Key Features

- Dual-Channel SLIC device with small footprint
- Loop start and Ground start support
- Optional dual battery operation
- Supplies more than 20 mA into 2000  $\Omega$  from -48 V
- Programmable current limit
- On-chip Thermal Management (TMG) feature in all Active states
- Low standby power (24 mW per channel)
- Supports 2.0 Vrms metering applications
- Control states: Active and Active Metering (Normal and Reverse Polarity), Standby, Tip Open and Disconnect
- 3.3 V compatible to logic control inputs
- Power up in Disconnect state
- On-hook transmission in Active states
- Per-channel fault detection and indication
- Per-channel thermal shutdown
- Programmable Off Hook and Ground Start thresholds.
- Programmable ring-trip detect threshold
- Footprint compatible with Microsemi's Le57D111 Dual SLIC

## Application

- Ideal for low-cost, high performance line card applications (CO, DLC)
- Meets requirements for countries such as: India, China, Korea, Japan, Taiwan, and Australia
- Meets requirements for North America DLC applications (TR-57-CORE)



## Recommended For You

### Le9540DUQC

Microchip Technology, Inc

QFN

### 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

**LE9500DBJC**

Microchip Technology, Inc

PLCC28

**LE79R79-1DJC**

Microchip Technology, Inc

PLCC32

**LE79555-2BVCT**

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44-TQFP