



# Quad Intelligent Subscriber Line Audio-processing Circuit 64-Pin TQFP Tray

Manufacturer: <u>Microchip Technology, Inc</u>

Package/Case: QFP

**Product Type:** Communication & Networking ICs

RoHS: RoHS Compliant/Lead free RoHS

Lifecycle: Obsolete



Images are for reference only

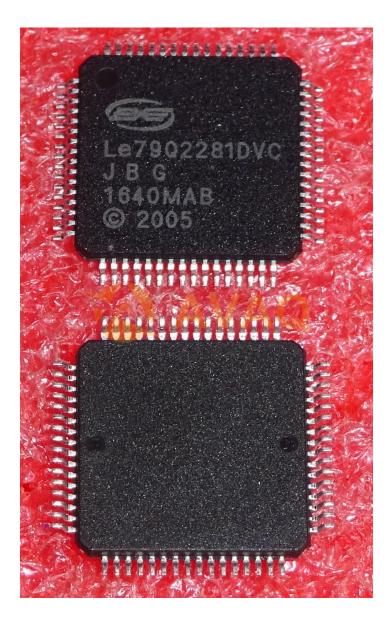


#### **General Description**

The Le79Q2281 Quad Intelligent Subscriber Line Audio Processing Circuit (ISLAC), in combination with VE790 Series SLIC devices, implements four-channel universal telephone line interface. The Le79Q2281 Quad ISLAC device has integrated self-test and line-test capabilities to resolve faults to the line or line circuit. The integrated test capabilities are crucial for remote applications where dedicated test hardware is not cost effective.

Key Features	Application		
High performance digital signal processor provides programmable control of all major line card functions	Voice over IP/DSL, Integrated Access Devices (IAD), Smart Residential Gateways (SRG), Home Gateway/ Router		
A-law/μ-law and linear codec/filter			
Transmit and receive gain	Cable Telephony, NIU, Set-Top Box, Home Side Box, Cable Modem, Cable PC		
Two-wire AC impedance	Fiber, Fiber in the Loop (FITL), Fiber to the Home (FTTH)		
Transhybrid balance	Wireless Local Loop, Intelligent PBX		
Equalization	DLC-MUX		
DC loop feeding	СО		
Smooth or abrupt polarity reversal			
Loop supervision			
Off-hook debounce circuit			
Ground-key and ring-trip filters			
Internal ringing generation and integrated ring-trip detection			
Adaptive hybrid balance			
Line and circuit testing			
Meets GR-909 and GR-844 test requirements			
Tone generation (DTMF, FSK, random noise, and arbitrary tone)			
Metering generation at 12 kHz and 16 kHz			
Envelope shaping and level control			
Modem Tone Detection			
Selectable PCM/MPI or GCI digital interfaces			
Supports most available master clock frequencies from 512 kHz to $8.192\mathrm{MHz}$			
General purpose I/O pins			
Exceeds LSSGR and ITU requirements			
Supports external ringing with on-chip ring-trip circuit			
Automatic or manual ring-trip modes			

Supports CallerNumber Identification (CID) tone generation



## **Recommended For You**

Microchip Technology, Inc

QFN

## LE88266DLC

Microchip Technology, Inc

QFP

## Le9530DETC

Microchip Technology, Inc

QFP

## Le9641PQC

Microchip Technology, Inc

QFN

## Le88830KQC

Microchip Technology, Inc

QFN

## Le79124KVC

Microchip Technology, Inc

QFP

## LE79252BTC

Microchip Technology, Inc

QFP

## Le58QL021BVC

Microchip Technology, Inc

QFP

## LE89900AMC

Microchip Technology, Inc

MSOP10

LE79R241DJC

Microchip Technology, Inc

PLCC32

LE9500DBJC

Microchip Technology, Inc

PLCC28

Le79555-2BVC

Microchip Technology, Inc

TQFP44

LE79R79-1DJC

Microchip Technology, Inc

PLCC32

LE57D121BTC

Microchip Technology, Inc

QFP

LE79555-2BVCT

Microchip Technology, Inc

44-TQFP