


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

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



Images are for reference only

[Inquiry](#)

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

High performance digital signal processor provides programmable control of all major line card functions

A-law/ μ -law and linear codec/filter

Transmit and receive gain

Two-wire AC impedance

Transhybrid balance

Equalization

DC loop feeding

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 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

Application

Voice over IP/DSL, Integrated Access Devices (IAD), Smart Residential Gateways (SRG), Home Gateway/ Router

Cable Telephony, NIU, Set-Top Box, Home Side Box, Cable Modem, Cable PC

Fiber, Fiber in the Loop (FITL), Fiber to the Home (FTTH)

Wireless Local Loop, Intelligent PBX

DLC-MUX

CO



Recommended For You

LE9540DUQC

Microchip Technology, Inc

QFN

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
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