

VE880 Series

Single Channel VoicePort[™] SLAC[™] Device

A Legerity Voice Solution

Le88010

APPLICATIONS

- Voice Enabled DSL Modems
- Voice over IP/ATM
- Integrated Access Devices (IAD)
- Smart Residential Gateways (SRG) and Routers
- Set-Top Box with PSTN Line Interface
- PBX trunk interface
- FXO interfaces

FEATURES

- In combination with a DAA, provides a complete phone line termination-to-digital interface solution
 - Fully programmable SLAC[™] device
 - Disconnect, Ringing signal, Line-in-use and Line polarity detection,
 - Line supervision for parallel devices connecting to subscriber line
 - Small footprint package 44-pin QFN
 - Minimal external discrete components required
- Compatible with solid state or transformer DAA interfaces
- High speed, pin selectable PCM/MPI or GCI interface
- Microprocessor interface
- GCI interface option
- Programmability
 - Two-wire AC impedance
 - Input/Output mode selection for one relay driver and five general purpose digital I/O pins.
 - Adapts to all ringing frequencies
 - Disconnect, line polarity and line-in-use thresholds
 - DTMF tone generators
 - Dial pulse and DTMF cadence
- Special feature support
 - DTMF tones
 - Dial pulses
 - Caller ID pass-through
 - Numeric address signaling
 - On hook transmission
- Integrated 150 mW 3-V or 5-V Relay Driver
 - Supports lifeline POTS in DSL IAD applications

ORDERING INFORMATION

Device	Package
Le88010BQC	44-pin QFN (Green package)*

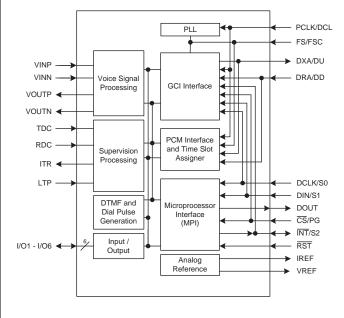
*Green package meets RoHS Directive 2002/95/EC of the European Council to minimize the environmental impact of electrical equipment.

DESCRIPTION

The Legerity Le88010 VoicePort[™] SLAC[™] device, in combination with an analog DAA, implements all the voice functions necessary to properly terminate and monitor the customer premises side of a PSTN line and provide linear or G.711 A- or u-Law encoded voice output over a standard PCM or GCI highway. The Le88010 device is ideal for use in voice enabled DSL modems that implement lifeline POTS and support PBX functionality.

This device reduces system level cost, space, and power by achieving a high level of voice integration and adds programmability of transmission and signalling features. Designers benefit by having a simple, cost effective, low power and dense, interface design without sacrificing features or functionality.

LE88010 VOICEPORT™ SLAC™ DEVICE BLOCK DIAGRAM



The information in this document is Preliminary and may be changed in whole or in part without notice. Zarlink makes no guarantee that the device(s) described herein will ever be considered for commercialization or mass production. If you are considering using the proposed device(s) or doing any related design work, please call a Zarlink sales representative for current information.

NOTE: On August 3, 2007, Zarlink Semiconductor acquired the products and technology of Legerity Holdings.

FEATURES	BENEFITS
Seamless and compatible interface with solid state or transformer DAA	 Provides complete design flexibility to choose optimal DAA solution for target market
Highly programmable	Enables designer complete control over transmission and signalling features
Highest level of integration	Reduces system level cost and board space
Comprehensive line monitoring	 Enables supervision functions such as disconnect, ringing signal detection, line-in-use, line polarity detection, and parallel phone off hook
Dial pulse generation with cadence and DTMF tones	Reduces real-time software overhead
Small footprint, 44-pin QFN	 Reduces board space requirement with small form factor 7x7 mm square QFN package

Related Literature and Supporting Collateral

- 081201-Le88010 VoicePort[™] SLAC[™] Device Data Sheet*
- Le71HR0823 VE880 Series Line Module supporting 1FXS and 1FXO Up to 150-V ringing with a 12-V Flyback Tracking Power Supply
- Le71HK002 Universal VoicePath[™] Development / Demo Platform
- Le71SK002 VoicePath[™] API-II Software System

*Contact your Legerity Sales Representative to obtain the data sheet.

Packaging and Availability

See Ordering Information on first page.

For More Information

To find the Legerity Sales Office nearest you, visit our website at:

www.legerity.com/contact/

To download or order data sheets, application notes, or evaluation tools, go to:

www.legerity.com/literature/

For all other technical inquiries, please contact Legerity Tech Support at:

techsupport@Legerity.com

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