

VE880 Series

Single Channel VoicePort™ Device Le88111/131

APPLICATIONS

- Voice enabled Cable and DSL Modems
- Voice over IP/ATM Integrated Access Devices (IAD)
- Smart Residential Gateways (SRG) and Routers
- Media Terminal Adapters (MTA) Standalone & Embedded
- Fiber to the User/Premise/Home (FTTH/P/H), Fiber in the Loop (FITL) Optical Network Terminals (ONT)
- Wireless Local Loop (WLL), PBX, ISDN NT1/TA
- Set-Top Box, Home Side Box

FEATURES

- Complete BORSCHT function in a single VoicePort[™] device
 - Battery Feed, Over-voltage support, integrated
 Ringing, line Supervision, Codec, Hybrid (2W/4W), Test
 - Small footprint package Exposed pad 44-pin LQFP
 - Minimal external discrete components required

Integrated Power Management

- Integrated high voltage switching regulator controller
 - Wide input voltage range (VSW =+3.3V to +35 V)
 - Switching power supply tracks line voltage minimizing active & ringing state power dissipation
- Low power Idle and On-hook transmission states

Ringing

- 5 REN with pin for pin compatible 100-V (Le88111) and 150-V (Le88131) devices
- Up to 140-Vpk internal balanced sinusoidal or trapezoidal ringing with programmable DC offset
- Unbalanced ringing for PBX trunk compatibility (Le88131 device)
- Pin selectable PCM/MPI or GCI interface

■ Worldwide Programmability

- Two-wire AC impedance, Balance Impedance, Gain
- DC feed voltage and current limit
- Ringing frequency, voltage and current limit
- 12 kHz and 16 kHz Metering
- Programmable loop closure and ring trip thresholds
- G.711 µ-law, A-law, or 16 bit linear coding

Powerful signal generator

- Universal Caller ID generation
- Up to four simultaneous tones
- Automatic cadencing feature

Subscriber Loop Test/Self Test support

- Comprehensive line sensing
- Integrated self test capabilities
- Line fault detection and reporting
 - Loop supervision, AC/DC faults
- Test load switch (Le88131)
- Integrated 150 mW 3-V or 5-V Relay Driver

ORDERING INFORMATION

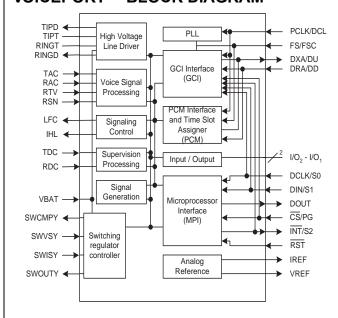
Device	Package
Le88111BLC*	44-pin eLQFP (Green package*)
Le88131BLC	

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

DESCRIPTION

The Zæla \ Le88111/131 Tracking Battery VoicePort™ device implements a single-channel telephone line interface by providing all the necessary voice interface functions from the high voltage subscriber line to the µP/DSP digital interface. This device reduces system level cost, space, and power by achieving the highest level of voice integration possible. Designers benefit by having a simple, cost effective, low power and dense, interface design without sacrificing features or functionality. The programmable, feature-rich VoicePort devices provide a highly functional line interface which meets the requirements of short and medium loop (up to 1500 Ohms total) applications. Features include: high voltage switching regulator, self-test, line test capabilities, integrated ringing (up to 140-Vpk), worldwide software programmability, flexible signal generator with tone cadencing, caller ID generation and all BORSCHT functions. These VoicePort device features are crucial for designing cost-effective, full-featured Voice over Broadband solutions.

VOICEPORT™ BLOCK DIAGRAM



FEATURES	BENEFITS
Highest level of integration	Reduces system BOM and discrete component count
Smallest footprint	Saves board space
Pin-compatible options	Provides design flexibility to develop one design and populate the voice socket with the right features for a given market—100 V or 150 V, narrow band or wide band, internal balanced (sinusoidal or trapezoidal) or unbalanced ringing
Lowest power solution across all operating modes	Provides best solution for battery-backed and power- sensitive applications
Highly programmable	Offers design flexibility to develop one application for worldwide markets
Integrated ring cadencing and system state control	Reduces real-time software overhead
Comprehensive line sensing	Enables high performance 909 diagnostics and subscriber loop test and self test support
Integrated switching regulator	Enables lowest component count and highest efficiency in all states of operation

Related Literature

■ 081165 Le88111/131 VoicePort[™] Device Data Sheet*

*Contact your Zæ|ā \ Sales Representative to obtain the data sheet.

Packaging and Availability

See Ordering Information on first page.

For More Information:

To find the Zæ∣∄\ Sales Office nearest you, visit our website at

www.: æ|a/.com



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