



**THE DATASHEET OF
LE89156PQCT**



Features

- **Complete BORSCHT Functions in a Single 48-Pin QFN Package**
 - Battery feed, Over-voltage support, integrated Ringing, line Supervision, Codec, Hybrid (2W/4W), and Test
 - Combines VE8910 SLIC and SLAC devices
- **Integrated Power Management**
 - Built-in DC/DC controller configurable for inverting-boost or flyback operation
 - Input voltage (V_{SW}) range: +4.4 V to +15 V
 - Low power idle mode
- **Worldwide Programmability**
 - Input impedance, balance impedance, gain
 - DC feed voltage and current limit
 - Ringing frequency, voltage and current limit
 - Caller ID Generation based on *Telcordia*, *ETSI*, and *NTT* standards
 - Call progress tone generation
 - Sample coefficients for 44 countries
- **Ringing**
 - 5 REN Support
 - Up to 92- V_{PK} internal balanced sinusoidal
- **VoicePath API-II Software Available to Implement FXS Functions**
 - Significantly reduces development and testing time
 - Configuration via VoicePath Profile Wizard
- **Wideband 16 kHz Sampling Mode**
- **G.711 μ -Law, A-Law, or 16-Bit Linear Coding**
- **Supported by SDK, Line Module, and Reference Designs**
- **VeriVoice Software Suites Available for Manufacturing and Subscriber Loop Testing**
- **Small Footprint Package - Exposed Pad 48-Pin QFN, 7x7x0.9 mm**
- **Pb-Free, RoHS-Compliant**
- **-40°C to 85°C Operating Range**

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Ordering Information

Le89156PQC 48-pin QFN (Green)¹ Tray²

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

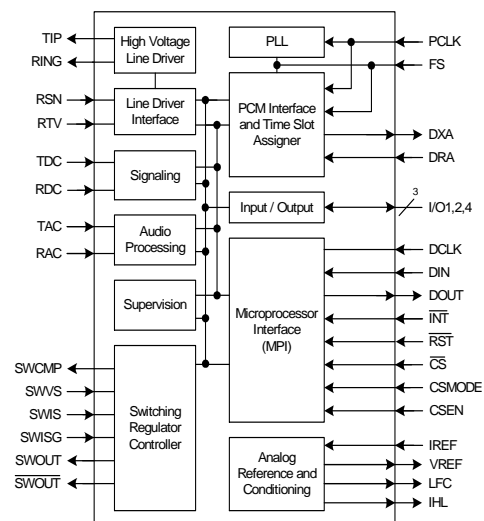
2. For delivery using a tape and reel packing system, add a "T" suffix to the OPN (Ordering Part Number) when placing an order.

Applications

- **DSL Residential Gateways and Integrated Access Devices (IADs)**
- **Cable eMTAs**
- **PON Single Family Units (SFUs)**
- **Broadband VoIP Gateways**

Description

The Microsemi Le89156 is an integrated, cost effective single channel FXS device that is optimized for VoIP access devices. It implements a complete BORSCHT functionality by providing the necessary voice interface functions to power, ring, signal, and connect one or more telephones. On the digital side, the Le89156 provides standard MPI and PCM interfaces to leading VoIP processors.



Le89156 Block Diagram

Looking for pricing, stock, or lifecycle information?

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