

Making Connections

miSLIC™ Line Circuits

- Low Cost BOM
- Ultra-low Power
- Adaptive Ringing

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Products

- Voice Line Circuits
  - miSLIC Series – High Performance Line Circuits
  - ZL880 - Enhanced Dual Channel Wideband FXS Line Interfaces
  - VE880 - FXS and FXD Line Interfaces
  - VE890 - Integrated FXS/FXD Line Interface
  - VE950 - General Purpose Ringing SLIC
- VE792 - Next Generation Carrier Chipset
  - LE79124
  - LE79128
  - LE79234
  - LE79238
  - LE79271
  - LE79272
  - ZL79258
  - LineCare Test Software
- VE790 - High Performance Programmable Chipset
- VE750 - Line Card Access Switches
- VE580 - General Purpose SLICs and Codec
- VE770 - SLIC/Codecs with (DTMF)
- Integrated Fixed Companding Codecs
- Multi-Featured Programmable Phone Codecs

LE79272

Next Generation Carrier Chipset (NGCC) Dual Subscriber Line Interface Circuit (SLIC)

Overview

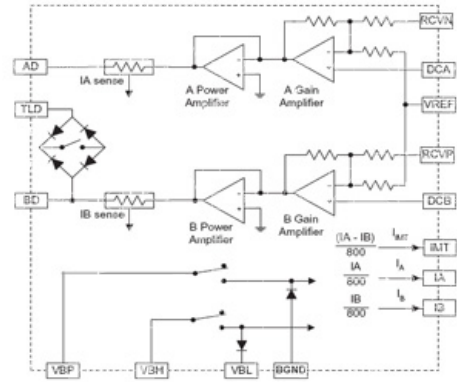
Docs & Specs

Applications

Packaging

The Le79272 Next Generation Dual Subscriber Line Interface Circuit (SLIC) device, in combination with an Le79238 SLAC device, implements a DSL friendly, high density universal telephone line interface. This enables the design of a low cost, high performance, fully software programmable line interface with worldwide applicability. All AC, DC, and signaling parameters are programmable. Additionally, the NGCC has integrated self-test and line-test capabilities to resolve faults to the line or line circuit.

Detailed Block Diagram (One Channel)



Features & Benefits

- Designed to minimize POTS transients, optimizing CRC performance for triple play applications
- Best-in-class GR-844 equivalent testing
  - Fully validated test primitives and host routines
  - Guaranteed performance parameters
- Optimized for best-in-class density
- Monitor of two-wire interface voltages and currents supports:
  - Voice transmission
  - Internal ringing generation
  - Programmable DC feed characteristic
    - Current limited and independent of battery
  - Selectable off-hook and ground-key thresholds
  - Subscriber line diagnostics
    - Leakage and loop resistance
    - Line capacitance and bell capacitance
    - Foreign voltage sensing
  - Power cross and fault detection
- Supports 85 Vrms internal ringing
  - Supports balanced and unbalanced ringing
- 3.3 V and battery supplies
  - Supports two negative and one positive battery
- Dual battery operation for system power saving
  - Automatic battery switching
  - Intelligent thermal management
- Compatible with inexpensive protection networks
- Metering capable
  - 12 kHz and 16 kHz
  - Smooth polarity reversal
- Tip-open mode supports ground start signaling
- Integrated test load switch
- 5 REN with DC offset
- Features with Le79124 VCP
  - 72 channel call aggregation
  - GR-844 equivalent line testing