

Products • Applications • Technology

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### LE79271 PRODUCT PROFILE

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

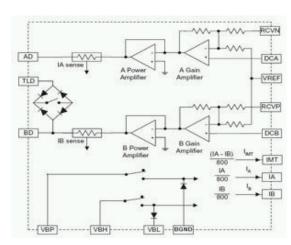
#### PRODUCT STATUS PRODUCTION

- ? Overview
- **Technical Documents**
- **Tools & Software**
- **Applications**
- Packaging & availability
- Support Where to Buy



The Le79271 Next Generation 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 (CLICK TO ENLARGE)



#### **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
- ? Access Infrastructure Application Preview Brochure
- ? VE792 Product Preview

## SOFTWARE URLS

- ? LE79124SLBT: VCP2-VP792 Code Load Basic Test
- 2 LE79124SLATP: VCP2-VP792 Code Load Advanced Test with Calibration
- ? LE79124SLAT: VCP2-VP792 Code Load Advanced Test

## TYPICAL APPLICATIONS

- ? Cost-effective voice solution for long or short loops providing POTS and integrated test capabilities
  - ? IVD
  - CO, DLC
  - Voice-enabled DSLAM
  - ? PBX/KTS ? MSAP, MSAN
- PRODUCT PACKAGING & AVAILABILITY

| Part<br>Number | Package<br>Type | Pin Count | Lead-Free<br>Option | Shipping<br>Option(s) | Lead<br>Time(wks) | Status     |
|----------------|-----------------|-----------|---------------------|-----------------------|-------------------|------------|
| LE79271MQC     | QFN             | 28        | GREEN               | Tray                  | CONTACT ZARLINK   | Production |
| LE79271MQCT    | QFN             | 28        | GREEN               | TR                    | CONTACT ZARLINK   | Production |

# PACKAGING INFORMATION



- ? Soldering Profiles
- Moisture Sensitivity
- Shelf Life
- Reliability Data

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LF79234 LE79124

Next Generation VoiceEdge Control Processor

Next Generation Carrier Chipset (NGCC) Voice Control Processor (VCP) LE79238 Next Generation Carrier Chipset (NGCC) Octal SLAC (Codec)