



## LE79238 PRODUCT PROFILE

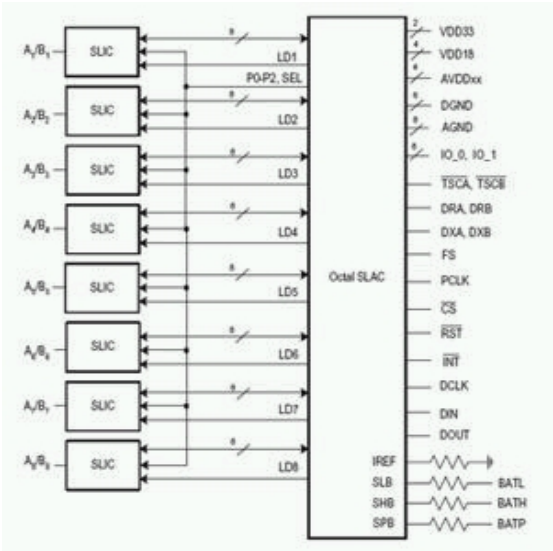
Next Generation Carrier Chipset (NGCC) Octal SLAC (Codec)

### PRODUCT STATUSPRODUCTION

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The Le79238 Next Generation Octal Subscriber Line Audio processing Circuit (SLAC) device, in combination with the Le79271 SLIC device, implements a DSL friendly, high density eight -channel 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 via a microprocessor interface. The Le79238 has an integrated test tool box and uses VCP test primitives and Zarlink host routine capabilities to resolve faults to the line or line circuit.

DETAILED BLOCK DIAGRAM (CLICK TO ENLARGE)



### FEATURES & BENEFITS

- ? Optimized for Next Generation Broadband xDSL and triple play applications
- ? Eliminates transients that could cause CRC errors
- ? Best-in-class GR-844 equivalent testing capability
- ? Ideal for high density, medium and large line count applications
- ? API-compatible with VE790 Series designs
- ? High performance digital signal processor provides programmable control of all major line card functions
  - ? A-law/μ-law and linear codec/filter
  - ? Transmit and receive gain, Two -wire AC impedance, Transhybrid balance, Equalization
  - ? DC loop feeding
  - ? Loop supervision
  - ? Internal ringing generation and integrated ring -trip detection
  - ? Metering generation at 12 kHz and 16 kHz
    - ? Envelope shaping and level control
- ? Enhanced line control and line -test support
  - ? DTMF and Modem Tone Detection
  - ? GR-909 and GR-844 Line and circuit testing capability
  - ? Tone generation (DTMF, FSK, and arbitrary tone)
- ? Standard PCM and MPI digital interfaces
- ? General purpose I/O pins, can be used as relay drivers
- ? Features with Le79124 NGVCP
  - ? 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](#)
- ? [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, IVD and integrated test capabilities

- ? POTS, IVD and integrated test capabilities
- ? IVD
- ? DLC
- ? CO
- ? Voice-enabled DSLAM
- ? PBX/KTS
- ? MSAP, MSAN

### PRODUCT PACKAGING & AVAILABILITY

Part Number	Package Type	Pin Count	Lead-Free Option	Shipping Option(s)	Lead Time(wks)	Status
LE792388TVC	LQFP	176	GREEN	Tray	10-12 weeks	Production
LE792388TVCT	LQFP	176	GREEN	TR	10-12 weeks	Production

### PACKAGING INFORMATION



- ? [Soldering Profiles](#)
- ? [Moisture Sensitivity](#)
- ? [Shelf Life](#)
- ? [Reliability Data](#)

### TECHNICAL SUPPORT

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Related Products	
LE79234	Next Generation VoiceEdge Control Processor
LE79124	Next Generation Carrier Chipset (NGCC) Voice Control Processor (VCP)
LE79271	Next Generation Carrier Chipset (NGCC) Subscriber Line Interface Circuit (SLIC)