

# LE79271 ☆

## Next Gen Carrier Chipset SLIC

Status: In Production

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 Overview

 Documents

 Development Environment

 RoHS Information

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## Device Overview

### Summary

The LE79271 Next Generation Subscriber Line Interface Circuit (SLIC) device, in combination with an LE792388 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 chip-set has integrated self-test and line-test capabilities to resolve faults to the line or line circuit.

For product comparison, please consider: [LE79272](#)

### Additional Features

**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

### Parametrics

Name	Value
Application	NGCC SLIC
Series	VE792
Loop Length	Long
Battery Topology	External
Output Voltage (V) max	150
Number of Ports	1



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### RoHS Information

Part Number	Device Weight (g)	Shipping Weight (Kg)	Lead Count	Package Type	Package Dimension	Solder Composition	JEDEC Indicator	RoHS	China EFUP
LE79271AMQC	0.055600	0.734694	28	VQFN	4x5x1 mm	Matte Tin	e3		
LE79271AMQCT	0.055600	0.370000	28	VQFN	4x5x1 mm	Matte Tin	e3		
LE79271MQC	0.055600	0.734694	28	VQFN	4x5x1 mm	Matte Tin	e3		
LE79271MQCT	0.055600	0.370000	28	VQFN	4x5x1 mm	Matte Tin	e3		

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 Shipping Weight = Device Weight + Packing Material weight. Please [contact sales](#) office if device weight is not available.



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