

PRODUCT PREVIEW

LineCare™ is Zarlink's carrier-grade line diagnostic software for access infrastructure equipment. With the VE792 series chipset, including the Le79124 Voice Control Processor (VCP2), LineCare implements critical line test, self test and real-time call control with signaling and monitoring functions to improve the service provider's ability to remotely diagnose problems within the voice network while eliminating the need for an external testhead. As a highly integrated, feature-rich interface solution, LineCare can cost-effectively eliminate the need for expensive network monitoring with test head equipment. This integration also allows for a faster design cycle, reducing the final cost to the customer by minimizing the software development time.

As an established industry leader within the access infrastructure technology industry, Zarlink's LineCare diagnostics solution brings stability to the next-generation deployment of the communications network. As new networks are developed, line test and remote diagnostics, as is available with LineCare, have become key parameters in all recent feature lists from top service providers.

Basic Test Package—Product number Le79124SLBT

- Coverage for GR-909 as well as equipment self tests
- Foreign Voltages DC & AC
- Foreign DC Voltages: 3-element insulation resistance
- DC Loop Resistance: forward or reverse polarity and offset compensation measurement
- Receiver Off Hook
- 3-Element Insulation Resistance
- ROH Verses Line Short
- Ringer Equivalency
- C-msg Noise Measurement
- Trans-Hybrid Loss
- DC Feed Self Test
- On/Off Hook Self Test
- Ringing Self Test
- Transmission Self Test
- Ring Monitoring Test
- Read Loop & Battery Conditions

Advanced Test (Basic Test plus the following features)—Product number Le79124SLAT

- Coverage for GR-844
- 3-Element Capacitance
- Foreign AC Voltage
- Differential AC Foreign Voltage
- Distance to Open
- Register Recall
- Foreign AC and DC Currents
- Active and Passive Noise measurements with various filters
- DTMF Receiver with Measurement
- DTMF & Pulse Dial Measurement
- Single, Dual, Quad Tone Generation
- Flat Active/Passive Noise Measurement
- 15kHz Active/Passive Noise Measurement
- 3-kHz Active/Passive Noise Measurement
- 3.4kHz Active/Passive Noise Measurement
- C-msg Active Noise Measurement
- D-Filter Active/Passive Noise Measurement
- Psophometric Active/Passive Noise Measurement
- Tone Generation (Up to 4 Tones)
- GR-909 Quick Test
- Draw and Break Dial Tone
- Inward Draw and Break Dial Tone
- Metering Self Test
- Dialing Self Test
- Howler Test

Advanced Test Plus (Advanced Test and Basic Test plus the following features)—Product number Le79124SLATP

- Support of in-service calibration for increased accuracy
- Support for inward cross tests of other lines
- 5 Element Insulation Resistance
- Signal to Noise Ratio and Quantization Distortion
- Arbitrary Single Tone Measurement
- Fuse Test
- In-Service Calibration Support
- Four-Element Insulation Resistance Measurement
- M-Socket-Detection Test
- D-D Transmission Test
- Non-intrusive Current and Voltage Measurements
- Inward Current Self Test

VCP2-VE792 Software Package

Host Code

Document and source code for high-level algorithms.

Host Algorithms

API-II Software

Application Programming Interface (API) that presents a unified programming interface to all of Zarlink's Voice Termination Devices (VTD).

Host Controller

VoicePath API-II

Le792388 Octal SLAC

Le79271 SLIC

VCP Firmware

Control aggregation, LineCare Line Testing. The VE792 contains all VE790 Line Test capabilities plus extended range and improved accuracy. Improvements include:

- DC resistance range down to 1 ohm
- AC and DC Voltage measurement up to 1000 V

Le79124 VCP2 (Voice Control Processor)

VE792 Series with Internal Ringing SLIC