

LINECARE™ LINE-TEST with Le79114 VCP II

PRODUCT PREVIEW

LineCare™ is Zarlink's carrier-grade line diagnostic software for access infrastructure equipment. With the Le79114 Voice Control Processor (VCP II), 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. The Zarlink LineCare™ is in production and has been deployed since April of 2008.

Basic Test Package—Product number Le79114SLBT

- ➔ Coverage for GR-909 as well as equipment self tests
- ➔ Foreign Voltages DC & AC
- ➔ DC Loop Resistance
- ➔ Receiver Off Hook
- ➔ 3-Element Insulation Resistance
- ➔ Ringer Equivalency
- ➔ C-msg Noise Measurement
- ➔ Trans-Hybrid Loss
- ➔ DC Feed Self Test
- ➔ On/Off Hook Self Test
- ➔ Ringing Self Test
- ➔ Transmission Self Test
- ➔ Read Loop & Battery Conditions

Advanced Test (Basic Test plus the following features)—Product number Le79114SLAT

- ➔ Coverage for GR-844
- ➔ 3-Element Capacitance
- ➔ Differential AC Foreign Voltage
- ➔ Distance to Open
- ➔ Foreign AC and DC Currents
- ➔ Active and Passive Noise measurements with various filters
- ➔ DTMF & Pulse Dial Measurement
- ➔ Single, Dual, Quad Tone Generation
- ➔ 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 Le79114SLATP

- ➔ 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
- ➔ Inward Current Self Test

The VCP II Package

Host Code

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

VP API-II

VCP Firmware

Control aggregation, DTMF Detection, Line Testing, Pulse dial timing, Zero cross detection, CID.

HBI

Voice Control Processor

MPI

Supported Line Circuit Configurations

QISLAC

Le79232 SLIC

EMR/LCAS

790 Series
External Ringing

QISLAC

Le79252 SLIC

790 Series
Internal Ringing