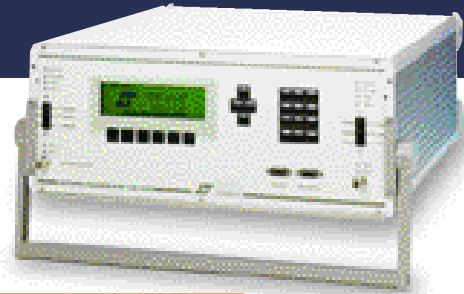


LSX 2020

DSL Line Simulator



FOR TESTING ANY DSL TRANSMISSION SYSTEM ON

Performance
Noise immunity
Crosstalk stability and
Remote Powering functionality

KEY FEATURES :

- Line Simulation up to 3 Mhz
- 100% freely configurable lines
- Based on the Active Analog Concept (AAC®)
- Internal Line Libraries, Noise and Crosstalk generators

LSX ADSL/HDSL/SDSL LINE PERFORMANCE TESTER

AAC® - A REVOLUTIONARY STEP IN TESTING ADSL-HDSL-SDSL

Thanks to the innovative Active Analogue Concept (AAC®), it is possible to precisely reproduce any line distance and any line characteristic in the lab just the way it behaves in the field and this without changing the hardware.

The LSX 2020 offers the ability to create lines of which all parameters can be configured in almost unlimited ways. This way developers and manufacturers of xDSL chipsets, modules or modems can easily create any possible line in order to fine tune their products while operators can select the best performing transmission system for their different lines.

Lines can be simulated starting from standard libraries (ETSI, ANSI, Bellcore, ...) or by entering line parameters collected in the field.

An additional key benefit is the ability to vary one parameter while holding all the other parameters constant.

The LSX 2020 is bi-directional and simulates very accurately the delays, which occur in reality. Furthermore, NOISE and NEXT can be programmed via the built-in generators or via the inputs for external sources.

Because of the fully configurable and programmable approach for any line setting, the LSX 2020 is the first line simulator which allows creating any test line in order to determine the maximum performance of a DSL transmission system.

AAC® simulator with fully programmable parameters.

- Line characteristics (line-slope, copper resistance, cable length)
- Attenuation at any sampling frequency
- Noise
- Crosstalk (NEXT)

Easy entry and storage of parameters.

- Comprehensive User Interface with function, cursor, numerical keys, 8 x 40 LCD
- RS232 interface for programming and backup via software.
- Internal memory for storage of up to 100 typical lines

I sx 2020: DSL Line Simulator

Built-in configurable Noise Generators.

- Broadband stabilised white noise generator (10 Hz to 10 MHz) with tuneable amplitude.
- Random Sampled Noise Signal Generator.
- Inputs for External Noise Sources at rear-end.
- Possible Selections: No Noise, Internal Only, External only, or Internal & External.
- Both Noise Generators have outputs at rear-end for use in other applications.

Built-in configurable NEXT Generator.

- Internal NEXT is selectable as pair-to-pair, quad-to-quad or unit-to-unit.
- Inputs for External NEXT sources at "NEXT In" and "Next Clock" terminals at rear-end.
- Possible Selections: No Next, Internal only, External only, or Internal & External.

Numerous applications possible because of wide parameter range.

- Frequency range from 5 kHz to 3 MHz => Applications up to ADSL possible.
- Line Attenuation from 0 to 99 dB (at 1 MHz).
- Bi-directional with DUPLEX and SIMPLEX systems possible.
- Remote powered system under test up to 400 V DC.
- Line representation with an accuracy of 0.5 dB (at 2 MHz).

Automation.

- Full Remote Control possible via RS232 interface.
- Software controlled self-calibration of the equipment.
- Automatic mode with line configuration by initiating only one known parameter.
- Perfectly suitable for use in an automatic test equipment environment.

