SPIRENT DLS

SPIRENT PHYSICAL LAYER SOLUTIONS

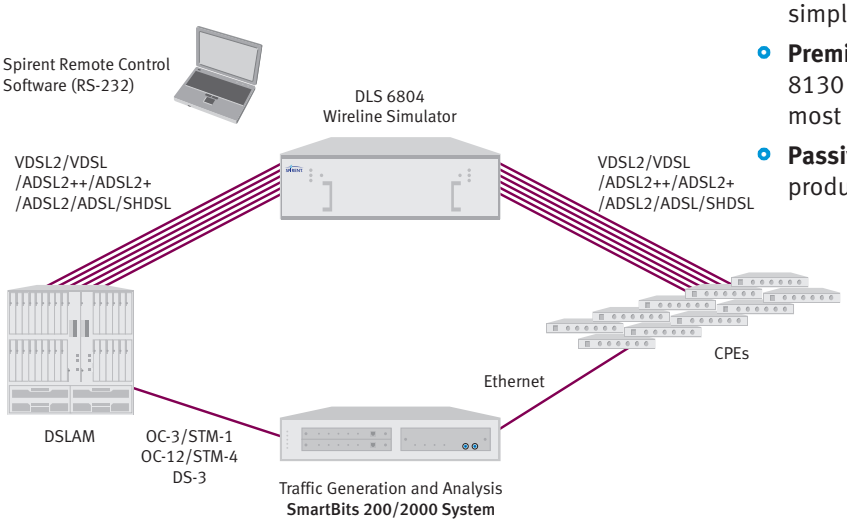
DLS 6826 MULTI-LINE PRODUCTION WIRELINE SIMULATOR

VDSL2/VDSL1/ADSL2++/ADSL2+/ADSL2/ADSL and SHDSL

OVERVIEW

The DLS 6826 is a high density multi-line production wireline simulator in a 6U rack-mountable chassis. It provides for wide bandwidth with reaches up to 15 kft, suitable for VDSL2/VDSL/ADSL2++/ADSL2+/ ADSL2/ADSL and SHDSL production and verification testing. The DLS 6826 production-grade simulator is designed to complement the DLS 8130 series of VDSL2 lab-grade wireline simulators used for highly accurate design, conformance and performance testing. The DLS 6826 provides a lower cost/lower performance alternative for manufacturing testing and simulates wireline parameters such as attenuation and impedance using passive components.

Spirent Communications' DLS products are the worldwide standard for physical layer equipment used in conformance, performance and interoperability testing. With extensive market and technology expertise leveraged from Spirent's active participation at all major standards meetings including ETSI, ANSI, ITU-T, IEEE 802.3, and DSL Forum, Spirent DLS equipment provides the industry's most accurate and repeatable results—ensuring your equipment is designed for peak performance.



FEATURES AND BENEFITS

- **Flexible Multi-Line Configurations:** The user can choose between an 8- or 12-line configuration. These models provide the end user with the flexibility to decide the number of lines per chassis based on their actual testing requirements, such as total number of lines under test
- **6U Rack-Mountable Chassis:** Supports high-density DSLAM port testing (e.g. 48, 72, 96 lines and higher) by stacking multiple modular 6U chassis to provide the highest line density in the industry
- **Shielded RJ-45 Connectors:** In order to minimize inter-channel crosstalk, shielded RJ-45 connectors have been chosen for connections to DUTs
- **30 MHz Bandwidth:** Bandwidth for SHDSL/ADSL/ADSL2/ADSL2+/ADSL2++ and VDSL2 standard testing
- **Loop Step Size:** Variable from 0 to 4 kft in 250 ft increments and from 4 kft to 15 kft in 500 ft increments
- **Simple To Operate:** Ease of use and setup make the DLS 6826 ideal for fast-paced manufacturing and verification multi-line testing
- **Manual And Remote Control Options:** Can easily be integrated into an automated test environment—allowing for control of the system in a customer's own scripting environment. Remote control via RS-232 allows automated testing and simplifies operation
- **Premium Accuracy For Production:** Uses technology from DLS 8130 series of VDSL2 lab-grade simulators to provide the most accurate simulator possible at the lowest cost
- **Passive Simulation Components:** Lowest noise floor in production wireline simulation enables greater accuracy

DLS 6826 MULTI-LINE PRODUCTION WIRELINE SIMULATOR

DLS 6826 SYSTEM SPECIFICATIONS	
Type of Wire	26 AWG
Number of Lines	8- or 12-line options
Reach	0, 250 ft to 15 kft
Variable Reach per Line	250ft increments to 4 kft, 500ft increments from 4 kft to 15 kft
Increments	Variable depending on length setting
Bandwidth	20KHz to 30MHz
DC Rating	100 VDC Max. Tip-to-Ring
Attenuation (Insertion Loss)	MAE ‹ 1dB (20KHz to 30MHz) Typically simulation vs. theory
Channel To Channel Accuracy	MAE ‹ 0.5 dB to ensure repeatable performance between channels
Usable Attenuation Range	0 to–90 dB
Impedance	± 10% (20KHz - 30MHz)
Control	Remote control via RS-232
Connections	Shielded RJ-45 jacks to minimize crosstalk
Power Supply	AC Power100 – 130 VAC, 60 Hz or 230/240 VAC (+6/-10%) 50/60 Hz AC to DC adapter
Environmental	
Operating Temperature	+10° C to +40° C (50° F to 104° F)
Storage Temperature	-4° F to 158° F (-20° C to +70° C)
Cable Reference Temperature	22ºC
Humidity	90% (non-condensing) max.
Mechanical (Unit comes complete with rack mount brackets.)	
Weight Per Chassis	20kg/45lbs per chassis
Dimensions Per Chassis	44 mm x 423 mm x 384 mm (1.75” x 17” x 15”) (H x W x D) (6U height)

ORDERING INFORMATION

Trade-in programs are available for existing production wireline simulators. The DLS 6826 can be ordered in different configurations to suit the needs of the production test lab. Contact your Spirent Sales representative for more information.

Single Chassis Configurations

- 26 AWG 8 lines X15 kft (P/N DLS 6826-08)
- 26 AWG 12 lines X15 kft (P/N DLS 6826-12)

SPIRENT GLOBAL SERVICES

Spirent Global Services provides a variety of professional services, support services and education services—all focused on helping customers meet their complex testing and service assurance requirements. For more information, visit the Global Services Web site at www.spirentcom.com/gs or contact your Spirent sales representative.

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