

SPIRENT DLS

SPIRENT PHYSICAL LAYER SOLUTIONS

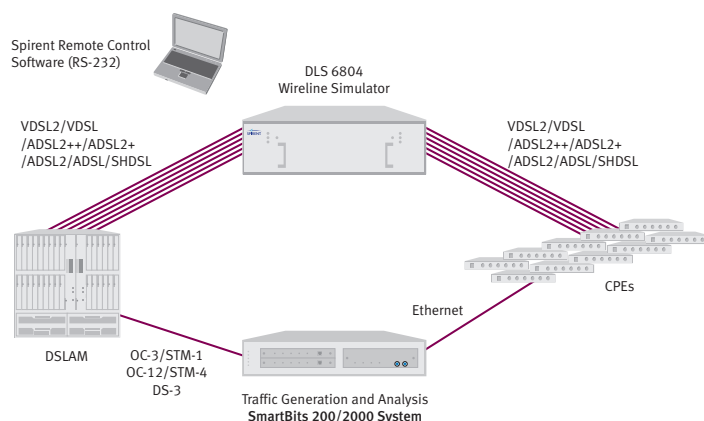
DLS 6804 EUROPEAN MULTI-LINE PRODUCTION WIRELINE SIMULATOR

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

OVERVIEW

The DLS 6804 is a high density multi-line production wireline simulator in a 6U rack-mountable chassis. It provides for wide bandwidth with reaches up to 4950 metres, suitable for VDSL2/ VDSL/ADSL2++/ ADSL2+/ADSL2/ADSL and SHDSL production and verification testing. The DLS 6804 production-grade simulator is designed to complement the DLS 8230 series of VDSL2 lab-grade wireline simulators used for highly accurate design, conformance and performance testing. The DLS 6804 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 gained from years of research and 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 1200m in 75m increments and from 1200m to 4950m in 150m increments
- **Simple To Operate:** Ease of use and setup make the DLS 6804 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 testing to be automated and simplifies operation
- **Premium Accuracy For Production:** Uses technology from DLS 8230 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

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DLS 6804 SYSTEM SPECIFICATIONS	
Type of Wire	PE 0.4mm as defined in ETSI TS 101 388
Number of Lines	8- or 12-line options
Reach	0, 150m to 4950m
Variable Reach per Line	75m increments to 1200m, 150m increments from 1200m to 4950m
Increments	Variable depending on length setting
Bandwidth	20KHz to 30MHz
DC Rating	100 VDC Max. Tip-to-Ring
Attenuation (Insertion Loss)	Typically MAE < 1dB (20KHz to 30MHz) over VDSL2 reach simulation vs. theory
Channel To Channel Crosstalk	Better than -80dB over frequency band 20KHz to 30MHz
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	-20°C to +70°C (-4°F to 158°F)
Cable Reference Temperature	22°C
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 6804 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

- PE 0.4mm x 8 lines x 4950 metres (P/N DLS 6804-08)
- PE 0.4mm x 12 lines x 4950 metres (P/N DLS 6804-12)

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