

Linescout® C2

Portable DSL Link Tester for ADSL/ADSL2plus

**Test any ADSL/ADSL2plus link between modems and DSLAM's.
Configurable as a DSLAM to check the modem and vice versa.
Chip set independent tester.**



The Linescout C2 is an easy to operate test tool for field technicians and installation companies who use it to quickly verify the link and maximum Up- and Downstream speed, independent of modem/DSLAM chipset under test.

The C2 is designed to be cost effective, rugged and easy to use. It provides all features a technician expects to help him or her during installation or trouble shooting of a DSL service. Since the C2 is a chipset independent test tool, it is possible to run tests with all supported standard ADSL flavors available on the market today. Unlike most testers of this kind, no special knowledge is required to use the instrument. It is a test-and-go approach that allows for quick verification of the information needed to validate a DSL link. However, additional information is available just a few clicks away from the main menu. This allows further investigation of the link and retests of new speed and software settings in a minimal amount of time.

The all-in-one approach of the Linescout C2 turns the instrument into an indispensable tool for every DSL technician. At an affordable price it is the preferred solution of the technician involved with DSL services.

DSLAM OR MODEM TEST

The unit works fast and is very simple to use. Installation time is kept to a minimum, since the unit can be set as a DSLAM or MODEM. As such it is possible to test the service to the modem before the DSLAM is on-line to check the DSL link from the customer premises to the DSLAM, before activating the service. Pre-deployment tests can be expanded with an option that allows a double-check with a loop attenuation reference usable at both sides of the connection.

Information like Noise Margin (NM), Power, QLN are made visible on the screen. In presence of noise, the tester will give information on the CRC errors, FEC and HEC. Additional information on NEAR & FAR END signal loss is indicated with parameters like LOS, LOF, LPR or LPO. System failure due to an initialization error is also indicated with the standardized parameter Lineinit.

IP THROUGHPUT TESTING

The higher layers can be tested with IP PING feature in PPoE, PPoA or LLC bridge mode compliant to RFC 1483/2684, RFC 2516 and RFC 2364. TX and RX packages are counted, with delay and average time.

TEST RESULTS STORAGE & VIEWING

All test results can be stored for each test and made available on a PC via the Ethernet port. On-board memory in the C2 provides storage for up to 100 test results.

In addition, one can make the link visible via software which displays the bit loading and other measurement results in real-time for further analysis or for documentation associated with the installation.

BATTERIES

The Linescout C2 is a portable test unit with built-in rechargeable LiPo batteries. These allow for 4+ hours of continuous testing in fully loaded status, reached after a 12-hour charging cycle. Low battery status is indicated and gives 15 minutes spare-time use. AC power supply can also charge the batteries.

APPLICATIONS

- ADSL - RE-ADSL - ADSL2
- ADSL2plus
- ADSL2plus over ISDN/POTS

STANDARDS

ITU-T G.992.1/3/3L/3M/5

CHIPSET COMPATIBILITY

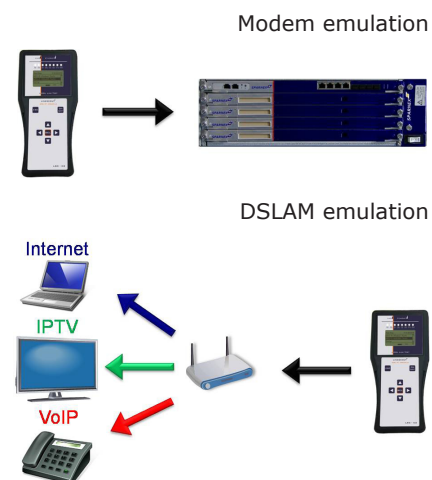
Broadcom, Conexant, Ikanos, Infineon

GRAPHICAL INTERFACE

Windows Real Time Linescout Bit load Status View

SPECIAL FEATURES & OPTIONS

- Line verification voltage test
- Quiet Line Noise
- INP 1/2, Fast and Interleaved
- TAP interface
- Outside Plant protection kit IP 54
- Banana, RJ 45 and RJ 11, rubber insulated crocodile clips connectors



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SPECIFICATIONS

xDSL Function

• Emulation:

- Modem Replacement with max. throughput for ADSL and VDSL
- Router for Link and PING test
- DSLAM CO / DSLAM replacement

• ADSL Standards:

- ANSI DMT T1.413 issue 2
- G.DMT G.992.1
- G.lite G.992.2
- ADSL2 G.992.3
- RE-ADSL G.992.3L
- ADSL2 All Digital G.992.3M
- ADSL2plus G.992.4
- ADSL2plus G.992.5A and B
- G.hs G.994.1

• Chipset Compatibility:

Infineon
Ikanos
Broadcom
More under development (Upgrade)

• Up-/Downstream Test:

- Max. Bit Rate Up- / Downlink
- Actual Upstream Bit Rate up to 120 Mbps
- Actual Downstream Bit Rate up to 120 Mbps
- Noise margin Up- / Downlink

- Noise level -64dB to +64dB

- Attenuation 0 to +127dB

- Transmit (Tx) level -90 to 0dB

- Interleaving delay in ms

- Interleaver depth in frames

- Bits per tone Real Time graph with optional "Live View" s/w

• Performance Parameters:

- Errors FEC, CRC, HEC

• Near End and Far End Loss:

- Loss of Signal LOS
- Loss of Frame LOF
- Loss of Power LOP
- Initialization error Lineinit
- ATM error LPO

• IP Information (IP over Ethernet):

- RFC 1483/2684 LLC bridging routing mode static and DHCP IP address

• IP over PPPoE

- RFC 2516 PPPoE (static and dynamic) with PAP/CHAP PPP connection

• IP over PPPoA

- RFC 2346 / LLC PPPoA
- RFC 2364 / VC-MUX PPPoA

• Test results:

- IP PING statistic
- number of transmit
- number of received packages
- missing and unreachable addresses
- delay and average time (max-min)

- LAN port RJ-45 10/100 M auto detection

- LED's for Link
Data
Speed

Cable parameter Measurements

- DC Voltage: Line Voltage upto 199VDC

General Data

- Graphical LCD display with backlight

- Languages English
French
German
Italian
Portugese
Spanish

• Connections

- Test port RJ-11
- LAN port RJ-45
- PC interface RJ-45 (Ethernet)
- Power supply Built-in LiPo battery
- Capacity 4+ hours (continuous test mode)
- Low battery Coloumb indicator
- Temperature / Humidity 10-50°C / 5-90%

Unit comes with:

- AC power supply and charger
- Test leads RJ-11 - RJ-45
- RJ-11 - banana plug with rubber insulated crocodile clamps
- cross-connect Ethernet cable for PC connection
- pouch made of rugged Cordura with additional space
- Windows-based software for download of test results and firmware upgrade of the unit

Optional:

- Car charger unit for 12V DC
- Windows-based s/w for real time tracing
- Rubber protection boot

Dimensions:

- Size 250 x 110 x 50 mm (H x W x D)
- Weight 650g
- Housing high impact resistant ABS
- Display protected by plexiglas

ORDER INFORMATION

Linescout C2
Car charger unit for 12V DC
Windows-based software for real time tracing