



Physical tests of the copper pairs

G.SHDSL Synchronisation tests

Measurement of G.SHDSL performance

- **Comparison with acceptance targets**
- **ATM / EFM Encapsulation / Bonding**
- **Up to 4 pairs G.SHDSL / G.SHDSLbis**

UniPRO Gbis G.SHDSL Tester

UniPRO Gbis is a revolutionary tool for testing all types of G.SHDSL service. It combines a state-of-the-art DSL engine with a range of useful copper layer fault checks into a compact, hand-held, battery-powered tester.

Designed with the field engineer in mind, UniPRO Gbis provides the ultimate in ease of use, pinpointing common network faults and checking service performance directly from switch-on with minimal setup. It supports the latest G.SHDSL standard, G.SHDSL.bis, as well as legacy versions of the technology, which are widely deployed for the provision of multi-pair DSL access to business applications. Up to 4 copper pairs can be tested simultaneously and can be bonded together using ATM (Asynchronous Transfer Mode) or EFM (Ethernet in First Mile) encapsulation to provide up to 22.784Mbps of symmetrical bandwidth.

UniPRO Gbis can be programmed with acceptance targets for the main G.SHDSL performance parameters, providing a simple Red/Green, Pass/Fail test. Results can be stored in the tester and simply uploaded to a USB memory stick for analysis and reporting in a PC environment.

With its optional CO (STU-C) emulation, UniPRO Gbis is equally useful in the Distribution Frame, at the street cabinet or in the customer's premises.





UniPRO Gbis

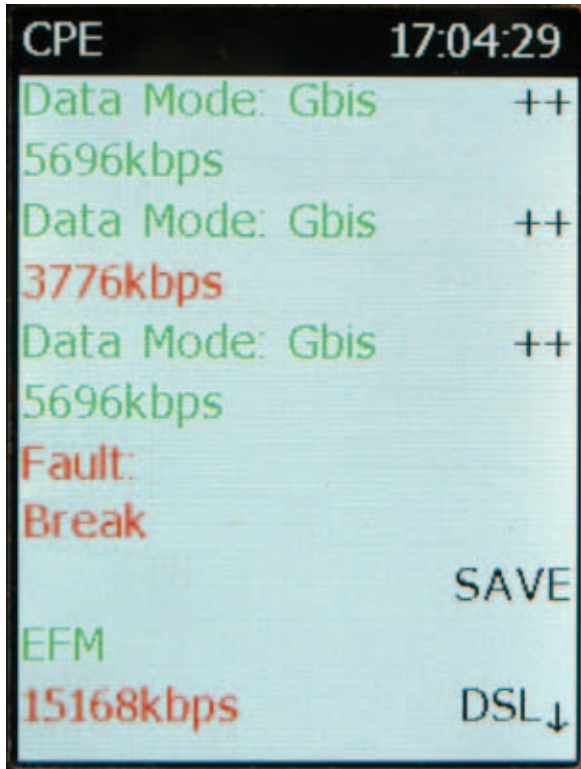
Comprehensive Testing Capability

UniPRO Gbis is the only tester on the market that can test 4 pairs G.SHDSL.bis with EFM bonding.

UniPRO Gbis

Features and Benefits

UniPRO Gbis is packed with useful features which provide real benefits to busy telecom engineers in their day-to-day practical field applications



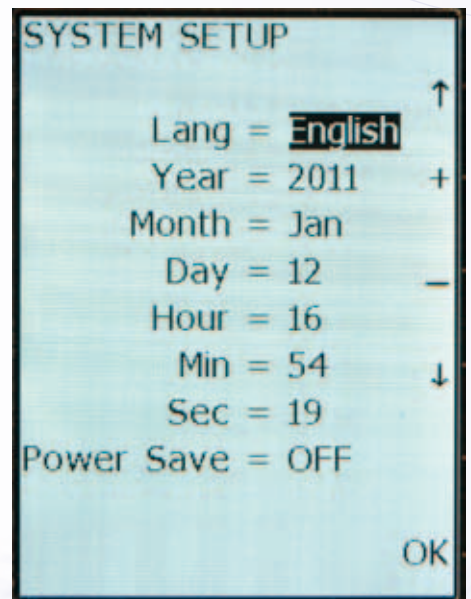
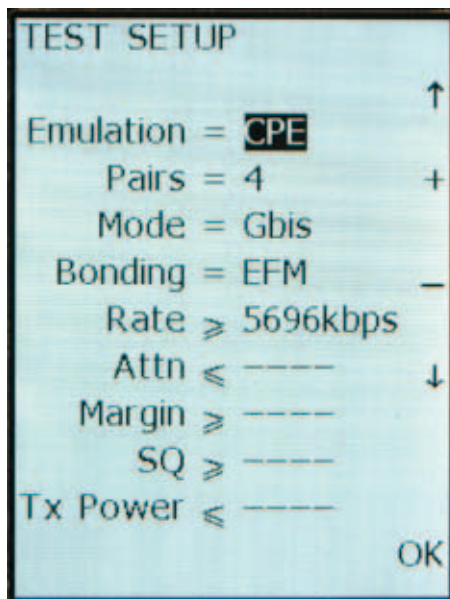
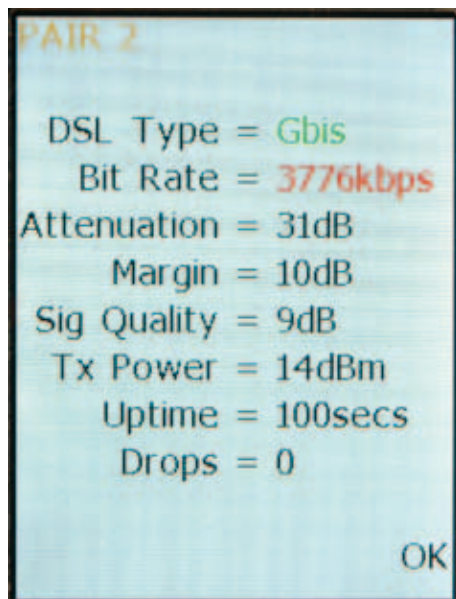
Features	Benefits
Instant switch ON and test	Network faults can be found in seconds, saving valuable technician time
Copper fault finding	Gross cable faults can be eliminated without the need for high levels of operator skill
Simultaneous testing of up to 4 pairs	No need to test cables individually. Bonded aggregate performance of all pairs can easily be checked
Main results on one screen	All the important results are presented on the home screen, direct from switch-on, with no user intervention. Saves time and operator skill requirement.
Detailed results for each pair	One button press reveals the detailed performance of each pair
Simple setup using Multi-function Softkeys	Very easy test and system setup. Negligible training needed.
Performance threshold target setting and comparison	Service level targets can be pre-set before deployment, maximising productivity of the user in the field
Result memory and USB export, with timestamp and tester identification	One-button result saving allows the performance of multiple jobs to be uploaded for later analysis and reporting. Automatically records when the test was performed and on which tester
Robust construction and long battery life	Always ready for work
Highly visible user interface	Effective in all field situations
Integral hanging/carrying strap	Can be hooked on to plant or in frames where working space is limited

HOME screen displays results for all pairs simultaneously

UniPRO Gbis

Simplicity of Use

From the home screen, the full set of results and setup parameters are just a couple of key-clicks away. Intuitive navigation can be learned in seconds.



Full details of individual pair performance compared with user-settable acceptance targets.

All of the test parameters are set up on one simple to navigate screen.

System screen provides language, clock and power save setup.

UniPRO Gbis

G.SHDSL Tester

Line Connector

Colour-coding of the 4 pairs throughout the cable, panel and screens for ease of identification

PAIR and BONDING LEDs

For instant and highly visible Go/NoGo indication

USB Interface & Internal Memory

Internal memory for up to 100 tests in .csv format. Data exportable to PC via USB flash drive

Mains Charger Input

Tester can operate from mains supply or on-board rechargeable long runtime battery



Rubber End Caps

Field protection and secure hand-held grip

Multi-Function Softkeys

For easy menu navigation

QVGA 3 1/2" Colour Screen

Large colour display gives easy interpretation of Pass/Fail results

Ordering Information

Part Number	Description
RPB00000	UniPRO Gbis (CPE only)
RPBCP000	UniPRO Gbis CO Plus (CPE + CO)

Standard Accessories (included)

Description	Description
Mains PSU / charger with UK and Euro mains leads	RJ-45 DSL cable
Plugs / clips DSL cable	User guide on CD
Quick Reference Card (English / French)	Carry bag



Technical Data:

PHYSICAL LAYER TESTS

Line Voltage	Up to 50 volts DC wetting current is allowed. DC span powering is not supported
Automatic Fault Detection (for each pair separately)	Up to 50 volts DC wetting current is allowed. DC span powering is not supported. Open circuit. Short circuit. Excessive Voltage (eg ISDN or DC span power). Alien xDSL service (eg ADSL or VDSL). Indication on display and LED

DSL LAYER TESTS

Emulation	CPE (Customer Premise modem / router – STU-R). CO (Central Office DSLAM – STU-C) - Optional
DSL Support	G.SHDSL / G.SHDSL.bis / Auto. ATM / EFM Bonding. 1 / 2 / 3 / 4 pairs
Automatic Synchronisation (for each pair separately)	Seeking / Training / Data Mode Indication on display and LED
Results (for each pair separately)	Data Rate. Attenuation. Noise Margin. Signal Quality (Noise Margin Stability). Transmit Power. Uptime. Drops count
Pass / Fail (for each pair separately)	Comparison with user-settable targets Indication on display and LED
Results (for bonded aggregate)	Data Rate. Comparison with user-settable target. Indication on display and LED

Note: This product is not suitable for testing SHDSL connections which are configured to transport TDM payloads with plesiochronous clocking.

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General Specifications

PHYSICAL

Dimensions:	280 x 180 x 50 mm
Weight:	1.8 kg
Operating Temperature:	0 to 45 °C
Storage Temperature:	-25 to +70 °C
Environmental Protection:	IP20

BATTERY

Type:	Nickel Metal Hydride
Autonomy:	4 hours typical
Recharge time:	3 hours

USER INTERFACE

3.5" Colour backlit LCD
Soft function keys
Bi-colour LEDs for each pair and Bonded Layer
Multi-language (English + French)

REPORTS

Internal storage up to 100 sets of complete reports
Automatic time/date and tester I/D recording
Export to USB memory stick
.csv format for spreadsheet / database compatibility

APPROVALS

Interference:	EN 55022:1998 / A1:2000 / A2:2003
Immunity:	EN55024:1998 / A1:2000 / A2:2003
Safety:	EN60950-1:2006, EN61010-1:2001
	RoHS Compliant

RELEVANT STANDARDS

ITU G.991.1
ITU G.991.2
ITU G.802.3ah
ITU G.998.1

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