

# D2071

## Modular multi-service interface tester



### Modular test set

Interchanging modules for different accesses

### Safe investment

Only what you need when you need it

### Time save

Easiness and immediacy in managing different interface types



The D2071 has been designed to satisfy all the needs that can be faced during the installation, maintenance and troubleshooting of Digital Subscribers Lines, a group of technology well established or experiencing a rapid growth in the telecommunication scenario.

### Modular Design

The device is composed of a main unit equipped with a laptoplike connector, where an interchanging card can be hosted. So far, the cards for the following interfaces are available: ShDSL, ADSL, ADSL2, ADSL2+ and ISDN BRI.

### Predefine Tests

This mode with the "History" function allow to store the most frequently used to display results of tests previously saved.

### Smart Status™

This feature is available through the pression of one single button and with different results according to the interface under test.

### Additional Software for Testing

The PC108 software with the D2071 represents the ideal solution for an efficient and deepened analysis of the results and for an useful and convenient remote management of the instrument.

# D2071

## Technical Specifications

### Telecom Interfaces

- ShDSL Access - STU-R, STU-C
  - ITU-T G.991.2 (G.SHDSL), TS 101 524 v1.2.1 (2003-03)
- ADSL 1/2/2+ Access - ATU-R
  - ITU-T G.992.1 Annex A and B (G.DMT), ANSI T1.413/2,
  - ITU-T G.992.2 (G.Lite), UR-2, ETSI DTS/M, ITU-T G.992.3,
  - ITU-T G.992.5 (Annex A, B, L, M)
- ISDN Basic Rate Access
  - ITU-T Rec. I.430, ETS 300 012

### Operating Modes

- ShDSL
  - STU-R 2/4 wires, STU-C, Through mode (option)
- ADSL 1/2/2+
  - ATU-R, ATU-R + Host, Through mode (option)
- ISDN BRI S/T
  - TE-S, MON-S, NT-S, S/T Bus wiring test (option)
- Analog/POTS
  - TE/FXO, MON
- ETHERNET (on board)
  - Host, Through mode (Bridge)

### ISDN BRI S/T (ISDN71 module)

- Protocols
  - EDSS-1, Q.SIG, 1TR6, TN1R6®, VN4, X.25, CorNet®-N, -T
  - On request DMS100, NI1, 5ESS
- Type of Test
  - Make a call, BER, X.25 access, loopbox, automatic test of the access
- Signalling protocol
  - D-channel capture & decoding monitor in high impedance and during the execution of a test

### ATM (IP2071 option)

- ATM OAM cell Management
  - F4 & F5, end-to-end, segment
- ATM Adaptation Layer AAL-5
- Type of Test
  - Ping, packets test, Traffic Generator
- Statistics
  - Cells counter, throughput, errors, alarms, peak

### IP (IP2071 option)

- IP address supported
  - Static, Dynamic (DHCP)
- Authentication protocol
  - PPP PAP, CHAP (MD5)
- Type of Test
  - IP Ping (ICMP), IP Trace Routing, IP Generate Traffic, Internet download (HTTP and FTP)1
- Statistics
  - Packet counters, throughput, Ethernet, errors, peak

### Connectors

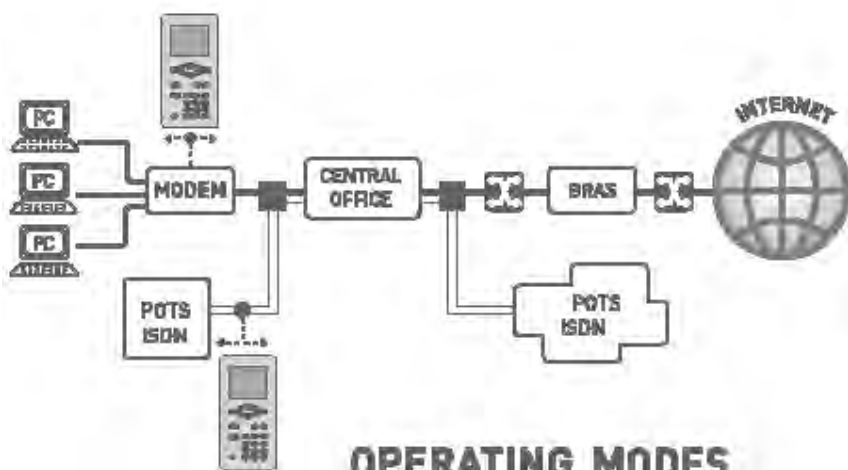
- Interface line
  - it depends on the used module
- Module communication interface
  - 68 wires Aethra Legacy
- ETHERNET (on board)
  - 4 wires RJ45 standard 10/100BASE-T port
- RS232 (on board)
  - 8 wires mini-DIN
- Power in (on board)
  - 4 wires external AC/DC adapter

### Options

|                     |  |
|---------------------|--|
| ShDSL71             | ShDSL module                                     |
| ADSL71 / ADSL71-I   | ADSL Annex A / Annex B modules                   |
| ADSL71-2plus        | ADSL 1/2/2+ ATU-R module                         |
| ADSL71-CO-2plus     | ADSL 1/2/2+ ATU-C module                         |
| ISDN71              | ISDN BRI S/T module                              |
| WT2071 (for ISDN71) | S/T Bus wiring test                              |
| D1029 (for ISDN71)  | Phantom power supplier on S bus                  |
| AB2001N             | Analog/POTS Terminal Simulator (FXO) and Monitor |
| ETH2071             | Ethernet port connectivity                       |
| IP2071              | ATM and IP Suite Tests, Statistics               |
| 1INET71             | Internet HTTP and FTP protocols                  |
| PC108               | Software PC108 for Windows™                      |

### Environmental Characteristics

- Dimension
  - Weight, with battery and one module : 500 gr.
  - Dimensions, with holster (mm) : 100(w)x180(l)x50(d)
  - Dimensions, with module (mm) : 140(w)x180(l)x50(d)
- Power
  - Battery Type : Rechargeable, two versions available: Ni-MH and Li-Ion
  - External AC/DC adapter 115/230Vac ±10% @ 50/60Hz
- Temperature
  - Storage/Transport -40oC to +70 oC
  - Operating, nominal -5oC to +45 oC
- User's Safety Aspects
  - EN 61010-1, EN 60950, EN 41003
- EMC Aspects
  - EN 55022, EN 55024, EN 61000-3-2 / -3-3
- CE Marking
  - Class B (residential devices)



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