

# D2000 *Lite*

## ISDN BRI - PRI COMBI TESTER



**Entry level test set for BRI and PRI**  
Complete range of fundamental ISDN tests

**Headed for everyday's job**  
Lightened from the more particular features

**Powerful and direct as never before**  
Aimed to everyday's ISDN line problems

### OVERVIEW

The D2000 *Lite* has been thought on purpose for those who need a very powerful device but aimed to the classic installing, maintaining and troubleshooting operations over ISDN lines.

Implementation of the main tests and features used by technicians in everyday's job, makes the D2000 *Lite* a *smart and noteworthy device*

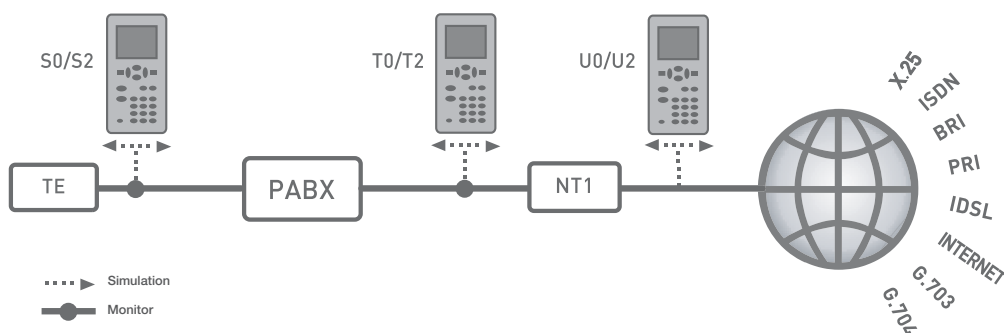
The device maintains all the characteristics of robustness, reliability and easy handling which identify the already affirmed Aethra's testers. The graphic user interface and the bright and wide display remain unchanged as well and, the intuitive navigation through setup and result pages, completes the winning attributes belonging to this device.

Still important and very helpful to troubleshoot problems is the SMART STATUS™ feature with which you can verify and keep under control alarms, errors occurring over the line, as well as channels, layers and device status monitoring. Everything is displayed in real time just by pushing one button and while the test is running.

### FEATURES AT A GLANCE

- Equipped with the most performed ISDN tests used to qualify the line
- Multiprotocol analysis implemented onboard with full frame decoding
- Memory expansion to store big quantities of data through the use of a standard MultiMediaCard™
- Optional PPP/IP tests in order to solve the problems belonging to Internet applications
- PC108 for Windows™, powerful brand new software which includes essential analysis features
- In field upgradable firmware by RS232

### OPERATING MODES



**TELECOM INTERFACES**

• Basic Rate Access	
S/T	ITU-T (CCITT) Rec.I.430, ETS 300 012
U	2B1Q and 4B3T, TS 102 080
• Primary Rate Access	
E1	ITU-T (CCITT) Rec.I.431, ETS 300 011
2Mbit	CCITT G.703 / G.704

**PROTOCOLS SUPPORTED**

• On board	EDSS-1, Q.SIG, 1TR6, VN4, X.25
• Other protocols available by PC	V.5.x, NI1, DMS100, CorNet®, 5ESS, TN1R6®, DASS-2, DPNSS

**OPERATING MODES AVAILABLE**

• BRI	TE-S, MON-S, NT-S, NT-U, LT-U (LTU-2K option)
• PRI	TE-E1, MON-E1, NT-E1, MON-E1 PMP (D2021 option)

**SMART STATUS™**

• G.826/M.2100 (only PRI)	ES, SES, BBER, UAS
• ISDN line	ISDN layers 1, 2 and 3 status
• B channels	B channels activity
• Frame Relay [IP2K-Lite]	DLCI, LMI, and quality test

**BACKGROUND MONITOR**

• Modes	Passive and during simulation
• Protocol analysis on-board	
• Programmable filters	Filters' capturing and displaying
• Statistics information	
• Analysis of the results stored on PC	PC108 for Windows™

**BIT ERROR RATE TEST**

• G.821 statistics	ES, SES, US, DM, PASS/FAIL, S-LOSS
• Pseudo-Random bit sequences	User definable $2^{11-1}$ , $2^{15-1}$ , $2^{23-1}$ , 16 bits octet
• Error Injection	User selectable, manual, automatic, single
• Round trip delay	

**X.25**

• Logical Types	DTE, DCE
• Tests	Traffic generator, Echo port

**GENERATE TRAFFIC**

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**IP [IP2K-Lite]**

• Modes	IP routed, IP over PPP (Client and Server)
• IP address supported	Static, Dynamic
• Authentication protocol <sup>PPP</sup>	PAP, CHAP (MD5)
• Protocols	PPP, IPv4, UDP, DNS, DHCP, ICMP, TFTP

**FRAME RELAY [IP2K-Lite]**

• Frame Relay Forum	FRF.1.1, FRF.3.1, FRF.12.1, FRF.14
• Type of traffic	IP, IP over PPP
• LMI	ITU-T Q.933, ANSI T1.617, original LMI CISCO
• Physical	G.703, G.704
• QoS statistics	FECN, BECN, DE, NLPID, DLCI, FRF.12

**U-BUS LOOP QUALIFICATION TESTS**
**ADVANCED LOOP-BOX FEATURES**
**AUTOMATIC ACCESS TEST**
**HISTORY AND PREDEFINED TESTS FEATURES**
**ENVIRONMENTAL CHARACTERISTICS**

• Dimension	
Weight, with battery	≈1 kg
Dimensions (mm)	130 (w) x 260 (l) x 65 (d)
• LCD display	240x200 Graphic display
• Power	
Battery Type	Rechargeable, Ni-MH
Battery life	≈3 hours @ 25°C, LCD back-lit off
External AC/DC adapter	115/230Vac ±10% @ 50/60 Hz

**TEMPERATURE**

• Storage/Transport	- 40°C to +70°C
• Operating, nominal	- 5°C to +45°C
• Humidity, non-condensing	≤ 93% RH @ 40°C
• CE Marking	Class B (residential devices)

**OPTIONS**

• LT-U2K	BRI LT-U simulation
• MMC2000	MultiMediaCard Memory extension
• PC108XP	Multi protocol decoding for PC
• Other protocols on request	TN1R6®, X.31, DASS-2, DPNSS, CorNet®-N, -NX, -NQ, -T
• IP2K-Lite	IP suite plus X.25 over B channel and Frame Relay layer