

T1000M E1/Data Transfer Analyzer



- ◆ TFT true color display, full graphical operation interface
- ◆ Multiple types of E1 error analysis, including E1 frame, pattern, CRC and BPV analysis
- ◆ Error performance analysis (G.821, G.826, M.2100)
- ◆ E1 signal frequency deviation test
- ◆ Each time slot of the E1 line can be set (FAS, CAS)
- ◆ Set and display the ABCD bits of signaling
- ◆ Set and display the Sa bit of time slot 0
- ◆ Data port error test (interface form: V.35, V.24/RS232, RS449, RS530, X.21)
- ◆ Offline analysis of BERT performance
- ◆ Can store 100 configuration and test result files (text format), which can be stored or recalled by the user
- ◆ Histogram visual display
- ◆ Multiple test result output methods: direct screen display, internal storage, parallel port printing

Built-in large-capacity rechargeable lithium battery, easy to carry and use on site

T1000M is a handheld E1/data error test instrument equipped with a true color screen and a full Chinese graphical operation interface. It can be used for on-site maintenance and analysis of E1/G.703 lines, as well as data lines (V.35, V.24/ RS232, RS449, RS530, X.21) bit error test. DTA-BERT has comprehensive functions and is easy to operate. It can not only conduct tests according to international standards such as G.821, G.826 and M.2100, but also store, count, analyze and print test data according to user requirements. It is a data line ideal tool for quality testing.

Interface Form

- ◆ E1 interface: RJ45 (balanced), BNC (unbalanced)
- ◆ Data interface: DB26 (female)
- ◆ Clock interface: PCM
- ◆ Print port: DB15 (female)
- ◆ Data upload port: USB (driver-free, U disk direct reading mode)

Basic Application

- ◆ E1 line error test
 - End-to-end testing of framed and unframed
 - Frame monitoring
 - Time-slot extraction and insertion
- ◆ Data line error test
 - DTE/DCE $n \times 64k$ synchronization test
 - DTE/DCE: low rate, synchronous/asynchronous test

Technical Indicators

| Model | T1000M/C E1 Data error tester | T1000ME 2M Error tester | T1000M/T E1 Transmission Analyzer |
|--|-------------------------------------|-------------------------------|---|
| Description | E1+Data | E1 | E1+Jitter+G.703-64K |
| Basic Function | | | |
| E1 interface test | • | • | • |
| Data interface testing | • | - | - |
| G.703 same direction test | - | - | • |
| Jitter test | - | - | • |
| Level test | - | - | • |
| Pulse template test | - | - | • |
| Dual-channel E1 online error monitoring and time slot analysis | - | - | • |
| PCM simulation test | - | - | • |
| E1 Interface Testing | T1000M /C | T1000M /E | T1000M /T |
| 75Ω and 120Ω interface | • | • | • |
| AMI, HDB3 line pattern | • | • | • |
| Line error test in termination mode | • | • | • |
| Online "crossover" mode testing | • | • | • |
| Online "Pass" mode test | - | - | • |
| Nx64K E1 bit error test | • | • | • |
| Multiple error insertion | • | • | • |
| Multiple alarm insertion | - | - | • |
| Time slot busy status display | - | - | • |
| Test pattern selection and programming | • (32 Bit) | • (32 Bit) | • (32 Bit) |
| Clock source internal/ interface extraction | • | • | • |
| Transmit clock source optional external | • | • | • |
| Transmission loop delay test | • | • | • |
| Data Testing | T1000M /C | T1000M /E | T1000M /T |
| DTE, DCE device emulation mode | • | - | - |
| Support V/X/RS/EIA series protocol data interface | • | - | - |
| Asynchronous data error test | • | - | - |
| Synchronous data error test | • | - | - |
| Data clock trigger edge selectable | • | - | - |
| Data interface receiving bit rate test | • | - | - |
| G.703-64K Testing | T1000M /C | T1000M /E | T1000M /T |
| G.703 64K co-directional interface bit error test function | - | • | - |
| Receive bitrate test | - | • | - |
| Alarm detection | - | • | - |

| PCM Simulation Test | T1000M /C | T1000M /E | T1000M /T |
|--|--|-----------|-----------|
| Simulate PCM terminal alarm insertion | - | - | • |
| Insert idle code (content programmable) | - | - | • |
| Send CAS, CCS (content programmable) | - | - | • |
| Monitoring of any 64k voice channel | - | - | • |
| Single audio signal insertion | - | - | • |
| DTMF insert | - | - | • |
| Other features and indicators | T1000M /C | T1000M /E | T1000M /T |
| IP PING test | • | - | • |
| Error analysis according to G.821, G.826, M.2100 standards | • | • | • |
| Automatically recognize frame format | • | • | • |
| Send real-time indication of circuit open/short circuit, test result clearing function | • | • | • |
| Instrument self-test, keyboard and LED detection function | • | • | • |
| Buzzer, LED audible and visual alarm and status indication/timing test | • | • | • |
| Headphone jack | - | - | • |
| TFT true color screen (320 × 240)/printing function | • | • | • |
| Power supply | Lithium rechargeable battery (2200mAh, supports 4 hours of continuous operation) / power adapter (9V/2A) | | |
| Weight/size | 0.8Kg, 180× 135× 70 mm (length× width× height) | | |

Note: “•” : Yes, “-” : No

* The above parameters are subject to change without prior notice..



