

Datatest 2 Plus: Technical Specifications

General

- Synchronous, asynchronous, and bit oriented protocols supported in all modes
- Up to 32 user messages, 1023 character buffer, any message may be up to 999 characters long
- All user messages and test parameters, port addresses, results, counters, buffer contents, etc. are permanently stored even after the device is powered off
- Sophisticated self-test checks all key interface leads, all LEDs, the LCD display, the keyboard, and all hardware and software
- Pushbutton DTE/DCE simulation, no patching required
- 5, 6, 7, or 8 level plus parity
- Odd, even, mark, space, or no parity
- Full duplex, half duplex, or multi-drop
- Any speed from 30 bps to 19.2 kbps full duplex
- Monitor and BERT to 56 kbps half duplex

BERT Mode

- Simultaneous functions and measurements:
 - B1 errors, Bits received, Blocks received, Blocks received, Errored seconds, Error free seconds, Sync losses, Framing errors, BCC errors, Parity errors, Time outs, B1 error rate (number bit errors/number bits received), Block error rate (number block errors/number blocks received)
 - Displays transmit and receive data for alphanumeric test patterns
 - Summarizes test set up
 - Timer
- Test messages include: 63, 511, 2047, and 4095 pseudo random word patterns, 5, 6, 7, and 8 level FOX pattern; alternate 1:0; and any user defined message
- E-A and Xon/Xoff dynamic flow control for statistical multiplex or testing
- Continuous, 1, 10, 100, 1000, 10000, 100000 or 1000000 blocks
- To 56 kbps half duplex, 19.2 kbps full duplex

Monitor Mode

- Monitor and display HEX, ASCII, EBCDIC, BAUDOT, EBCD, or user definable codes, asynchronous, synchronous, bit oriented protocol, SDLC (NRZI or NRZI), HDLC
- 4096 character buffer, minimum 1 up to 6000 characters
- Simultaneously counts both transmit and receive bytes, frames, framing errors, parity errors, and CRC 16, CRC CCITT, or LRC errors
- 32 character display, alphanumeric
- To 56 kbps half duplex and multi-drop, 19.2 kbps full duplex
- Captured data may be output to a terminal or a printer

Echo Mode

- Echo incoming data (synchronous or asynchronous) on a character by character basis
- Store incoming data until a programmable message end character is received, then transmit accumulated data as a block

Poll Mode

- Up to 32 stations, local or remote, as a master or slave
- Free format poll protocol
- After first message is transmitted, the Datatest 2 Plus will transmit up to seven different specific messages, depending upon which of the up to seven responses is received
- For each of up to 32 stations, counts good responses, bad responses, unmatched responses, communications errors, and timeouts (160 interactive counters)
- Messages may be up to 999 characters in length
- Application programs available for common testing protocols

Transmit (XMIT) Mode

- BAUDOT, EBCD, ASCII, and EBCDIC character sets, or a user message
- Definable line length, new line characters, pads, pad length, form feed character, and number of pages
- User definable flow control on a character, line, or page boundary
- Interactive dumb terminal mode

Input/Output Mode

- Accepts input from a Datatest 2 Plus Memory Pack (or another Datatest 2 Plus) for test and message storage or downline loading
- Will output test results, test and line parameters, and user messages to an ASCII printer
- Outputs to a Data Pack all test setups and user messages, as well as the entire data buffer and results

Trap

- Traps on errors, state of an interface lead, sync loss, or any character string from 1 to 999 characters
- Triggered pre, during, or post

Alarm

- On errors, any interface conductor changing state, sync loss, or end of test

Timer

- Measures 1 millisecond to 4.3 hours
- Measures delay between any two conductors changing state
- Automatically enabled in all modes
- Can be used to determine which of two conductors changed state first

Dimensions

- 8' X 5' X 2.8' (20 cm X 13 cm X 5.5 cm)
- 2 lbs (1 kg)

Operating Conditions

- Operating temperature: 0 to 40 degrees C
- Storage temperature: -20 to 60 degrees C
- Operating humidity: 10 to 90 percent non-condensing

Power

- Internal Ni-Cad batteries—two hour life
- Charge time: 16 hours
- 120 V/60 Hz/220 V/50 Hz ac adapter

Navtel
Better by design

V.35 Bit-Error-Rate Testing (BERT) for Datatest 2 Plus

Now you can use your Datatest 2 Plus to run BERT up to 72 Kbps full duplex!

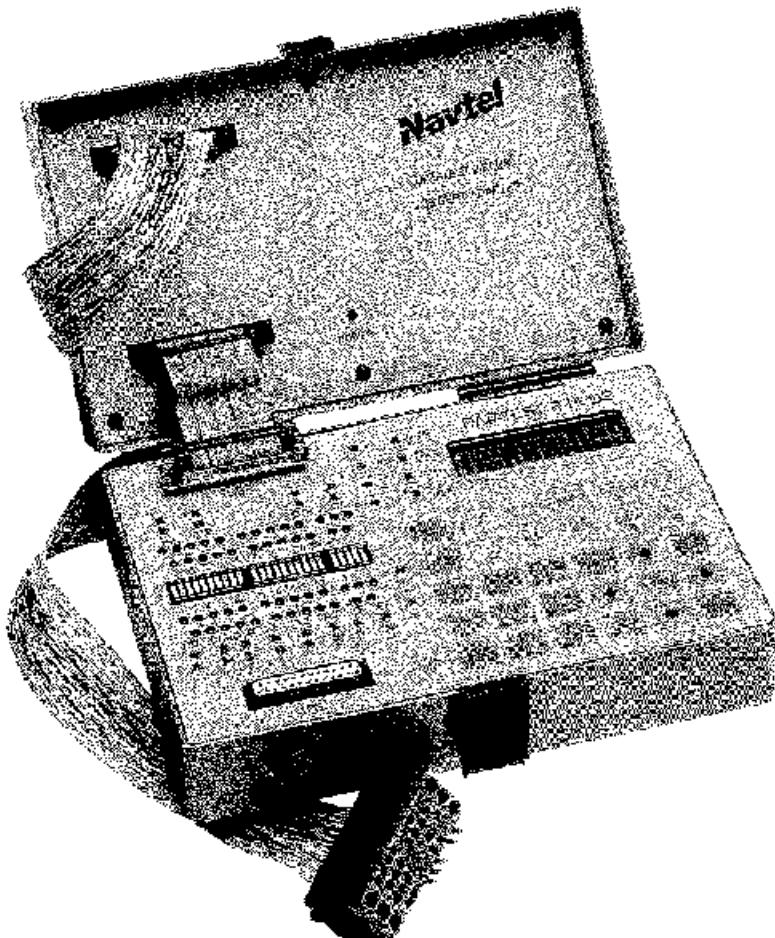
Need to test 56K DDS or 64K DSO circuits? The new V.35 BERT option for your Datatest 2 Plus gives you the full-function BERT you've come to expect from Navtel — at speeds up to 72 Kbps full duplex.

The V.35 BERT option consists of a metal pod that replaces the lid of your Datatest 2 Plus. It has its own V.35 cable for connection to the line under test. Power for the V.35 BERT option is provided by an AC adapter. Printer output is provided by the Datatest 2 Plus printer port.

Specifications

Messages

- FOX (EBCDIC)
- \$11
- 2047
- 1095
- Alternate I-C
- 1 (all mark)
- 0 (all space)
- User message. (User message can be anywhere from 4 to 64 characters long. This allows for special stress-testing messages such as 6/1.)



Protocol

- Synchronous
- Eight data bits, no parity
- Full duplex

Insert Error

- One error is inserted each time the insert error key is pressed.

Emulation

- DTE or DCE

Clock

- Internal (19.2 Kbps-72 Kbps DCE emulation only)
- External (up to 72 Kbps)
- RC sleeve to XTC (DTE emulation only)

Test Duration

- 1, 10, 100, 1,000, 10,000, 100,000, 1,000,000 blocks
- 1-256 minutes, continuous

Results

- Bit errors
- Sync losses
- Blocks received
- Block errors
- Error-free seconds
- Errored seconds
- At the end of the test, the unit also provides BER and BERLT calculations

Printer Output

- At the end of the test, results, statistics and setup information can be printed using the DTE connector.

Put us to the test.

Our V.35 BERT option is a powerful addition to the unique capabilities the Navtel Datatest 2 Plus has to offer. Call today for more information about the complete line of quality Navtel data communications testing equipment.

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