

COMTEST X21H



A COMPLETE HIGH SPEED V10/11-X21 (COMPRISING X20 AND X22) INTERFACE TROUBLESHOOTER, TESTING X26/27, RS422/423 ELECTRICAL STANDARDS. IT TESTS SPEEDS UP TO 10Mb AND IS POWERED BY BATTERY OR OPTIONAL MAINS ADAPTER.

The Comtest X21H is the easiest to use and the most flexible X21 communication tester available. It can test signal strength and Ground Potential Difference. It runs over 20 hours on one single 9-volt battery and has a galvanically separated source to force signals. The rugged design and high quality components used makes it nearly indestructible.

TECHNICAL INFORMATION:

- High impedance/speed (10Mb) monitors on all signal lines.
- One unassigned high speed monitor with trap.
- Signal Strength tests for 0.3, 0.6, 1 and 2 volts.
- Galvanically separated 1.5 volt DC source.
- Ground Potential Difference test.
- Breaks and redirects all 15 lines.
- Two dual gender ribbon cables.
- Runs over 20 hours on one single 9-volt battery.
- Self explanatory layout for easiness of use.

The Comtest X21H offers many features not available on other testers of its kind. Although several times faster than similar products, it runs longer on one single 9 volt battery. The 1.5 volt source is provided by a separate AAA size battery and galvanically separated.

The Ground Potential Difference test is an important feature needed if different grounds (wall outlets) are used. The "in line" GPD tests for voltages over 2 volts, the unassigned monitor/trap allows test of Ground Potential Differences as low as 0.3 volt. The Signal Strength test allows the user to test for voltage levels of 0.3, 0.6, 1 and 2 volts.

The Comtest X21H has a 15 pole dual in line switch with DCE/DTE sockets on both sides, making it possible to break and crosshatch all lines by means of the switches and the jumper cables supplied with the unit. The two dual gender ribbon cables assure 100% connectivity in any type of configuration. All contacts are gold plated to ensure good electrical contact.

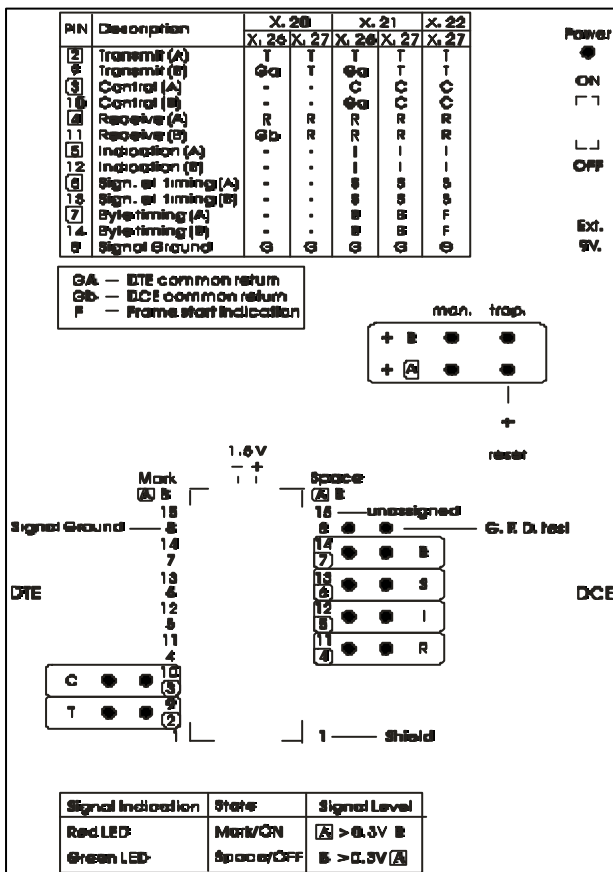
It is housed in a moulded, durable ABS plastic case, with the battery compartment on the backside. The logical face plate is easy to read and gives all information needed to test the X21 interface.

The Comtest X21H runs over 20 hours on a single 9 volt battery. It can also be powered by an optional 9 volt (stab. / min. 100mA) mains adapter.

Size of the main unit: 150 x 105 x 20 mm

Weight: 295 grams.

Full technical information is provided on panels in case and on the back.



X21H Front Panel

Power:
 26 hours by one 9 volt alkaline battery or 9V/100mA stab. external source (2.8mm mono plug, + on top) plus one 1.5 V AAA battery for the DC source. Power LED is off, or blinking if the battery is more than 90% empty.

Ground Potential Difference: G. P. D. develops when systems are wrongly grounded or use different grounds, using different wall outlets or UPS; the test is recommended. Read chapter "Traps & Trills" in the user manual for more information.

To test G. P. D. open all dual in line switches. LED on # 19 lights if G. P. D. is over 2 volt. For a more accurate test (300mV) use the unassigned monitor, connect A resp. B to the left and right socket # 19; the pulse trap stores short duration pulses.

Signal Strength test: The minimum voltage needed according to the standard (reference for the in-line monitor) is too low to assure a reliable communication. To test the real voltage strength connect A respectively of the signal line to A/B of the extramonitor. Signals exceeding the selected voltage will light the LEDs. The trap will trigger according to selected range.

Technical Information:
 Dynamic response: Line monitor and unassigned monitor.....10Mb
 Pulse trap..... 20ns

Impedance: Line monitor..... 2KΩ
 Unassigned monitor..... 2KΩ
 Signal Strength Adapter..... 8KΩ/volt

Source: 1.5 volt, galvanically separated, through 120Ω resistor

X21H Back Panel

The Comtest X21H comes complete with two dual gender cables, Signal Strength Adapter, jumper cables, batteries, user's manual and case for transport.

For further information, please contact: