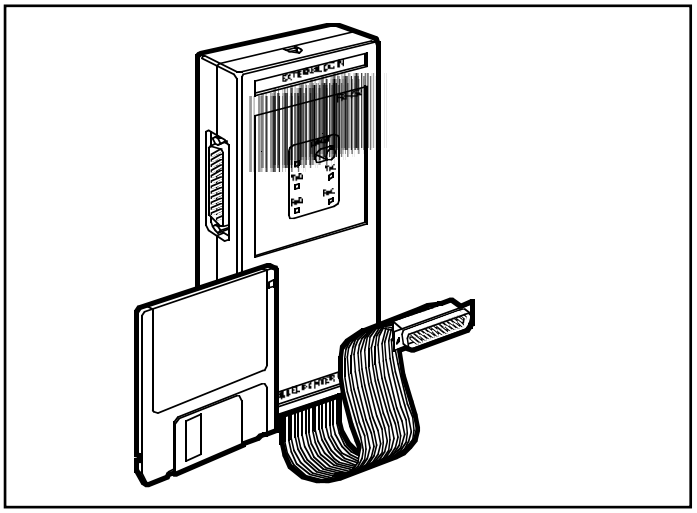
BLACK BOX®
NETWORK SERVICES

Black Box Network Services • 464 Basingstoke Road • Reading, Berkshire, RG2 0BG • Tech Support: 0118 965 6000 • **www.blackbox.co.uk** • **e-mail: techhelp@blackbox.co.uk**



SERIALTEST

Use your PC or laptop as a protocol analyser for serial data.

Key Features

- ***Data captured includes data bytes, control signals, and error conditions.***
- ***Characters displayed in ASCII, EBCDIC, or Baudot.***
- ***Live breakout box includes timing diagrams and counters.***
- ***Absolute or relative display of event time; delta-time and effective-data-rate calculations.***
- ***Record and play back a series of keystrokes.***
- ***Character strings, control signals, and error conditions can be used to control functions.***

Expensive, dedicated protocol analysers are a thing of the past with the Serialtest. It turns any desktop PC or laptop into a serial-data protocol analyser.

If you need a diagnosis for Windows, order the Serialtest ComProbe® (Sync/Async) for Windows® 9x/Me/2000/XP or Windows NT® (TD115V-R3). With the software, you get an RS-232 ComProbe adapter. The ComProbe connects to your PC via the parallel printer port and lets you passively monitor and actively test both sync and async devices.

Serialtest (Async) for Windows 9x/Me/2000/XP or Windows NT (TD114V-R3) includes 32-bit software used for async-only testing in a Windows environment. Your PC, coupled with this user-friendly software, provides a powerful yet economical platform for data troubleshooting and development. The package includes Serialtest for Windows 95/98/2000/Me/XP and Windows NT software and a custom cable set.

Serialtest Spy software monitors internal PC modem and serial-port communications at speeds up to 115.2 kbps. You can run and troubleshoot your data-comm application on the same PC. And it has all the monitoring features of the Serialtest Async.

Serialtest Spy is a software-only package that will passively monitor or actively test any serial device that uses SERIAL.VXD (for Windows 95/98/Me/XP) or SERIAL.SYS (for Windows 2000 or Windows NT) as its serial driver, including serial ports, internal modems, infrared modems, and RS-232/ 422/485 cards. Spy can decode data sent to an internal modem (including Internet PPP or SLIP connections on a single-user or gateway machine), analyse data rate throughput, troubleshoot control signal timing problems, and emulate a DTE device.

If you want a Windows 95/98/NT Serialtest Spy add-on for your existing TD114V-R3 Serialtest (Async), then order the TD128V-R2.

Serialtest's 32-bit software is easy to use for communications specialists, network supervisors, and software developers. User-friendly pop-up software screens make monitoring data a breeze.

The Statistics window lets you quickly and easily monitor the vital signs of the circuit you're testing. You'll see stats that include totals and percentages for bytes, frames, errors, characters per second, and utilisation.

The Breakout Box window enables you to view control signals in real time. You can perform timing analysis of control-signal transitions using the Signals Display window. Use it with the Review Events and the Frame Decode windows, and you can see the relationship between control signals, bytes, and frames.

The File Export utility lets you export captured data from the Serialtest and convert it into binary or text format, so you can include it in reports or analyse it further. Do this by using a word-processing or spreadsheet program (such as Word or Excel) or a custom analysis program.

Other windows also make analysing your data easier. Select Live Events, Review Events, or Control windows.

Specifications

TD114V-R3

Data Interface: RS-232; RS-232 interface converters available for other interfaces

Async Baud Rates: Up to 115.2 kbps, including support for user-defined baud rates

Operating Modes: Monitor, Source DTE, Source DCE

Communication Modes: Async

Protocols: PPP, SLIP, TCP/IP, user-customized protocol stack, and custom decodes

Flow Control: Software (including user-defined X-ON/X-OFF characters), Hardware (RTS/CTS and DTR/DSR)

Character Sets: ASCII, 7-bit ASCII, EBCDIC, Baudot

Parity: None, Even, Odd, Mark, Space

Word Length: 5, 6, 7, 8 bits

Stop Bits: 1, 1.5, 2

TD115V-R3

Data Interfaces: RS-232, MIL STD-188, RS-232 converters available for other interfaces

Sync Baud Rates: Up to 64 kbps, including support for user-defined non-standard baud rates

Async Baud Rates: Up to 38.4 kbps, including support for user-defined non-standard baud rates

Operating Modes: Monitor, Source DTE, Source DCE

Communication Modes: Async, Sync–NRZ and NRZI (external and internal clocking supported)

Protocols: Monosync, Bisync, HDLC, SDLC, X.25 SNA, Frame Relay, PPP, SLIP, TCP/IP (TD115V-R2: Also user-customised protocol stack and custom decodes)

Flow Control: Software (including user-defined X-ON/X-OFF characters), Hardware (RTS/CTS and DTR/DSR)

Character Sets: ASCII, 7-bit ASCII, EBCDIC, Baudot

Parity: None, Even, Odd, Ignore

Word Length: 5, 6, 7, 8 bits

Stop Bits: 1, 1.5, 2

System Requirements, TD114V-R3, TD115V-R3

- Windows® 95, 98, Me, 2000, XP, or Windows NT®
- 486 DX2-50 processor or higher
- 8-MB RAM (16-MB recommended)
- 5-MB hard-disk space (capture file size is limited by disk size)
- TD114V-R3: Minimum of one serial port; two serial ports for bidirectional monitoring
- TD114V-R3 : Supports COM1 through COM64
- Maximum data rate supported is based on PC processor speed
- TD115V-R3: Requires a parallel port to interface

TS126V-R2, TS128V-R2

Data Interface: Any serial device that supports the standard Microsoft® driver

Data Rates: Up to 115.2 kbps

Operating Modes: Monitor DTE, monitor DCE, monitor both, source DTE, source DCE

Bit Order: LSB (normal) or MSB (reversed) first

Protocols Supported: Async PPP, PPP, SLIP, TCP/IP (including ARP, RARP, DNS, HTTP, ICMP, IGMP, NBDS, NBNS, NBSS, SMTP, and UDP), custom decoders for proprietary protocols and extensions to existing protocol decoders

Flow Control: Software (including user-defined X-ON/X-OFF, hardware [RTS/CTS and DTR/DSR])

Character Sets: ASCII, 7-bit ASCII, EBCDIC, Baudot

Timestamping: Absolute and relative timestamping, sub-microsecond resolution

Typical Application

Field service engineers, system integrators, communication specialists, and network supervisors can use Serialtest with a PC or laptop to make analysing serial data easier.

Ordering Information

ITEM	CODE
For sync and async data and protocol analysis, order…	
Serialtest ComProbe® (Sync/Async) for Windows 9x/Me/2000/XP or Windows NT	TD115V-R3
For async-only data and protocol analysis, order…	
Serialtest (Async) for Windows 9x/Me/2000/XP or Windows NT	TD114V-R3
For a software-only version (no extra PC required), order…	
Serialtest Spy for Windows 9x/Me/2000/XP or Windows NT	TD126V-R2
Or order a Combo Pak…	
Serialtest (Async) + Serialtest Spy Combo Pak *(Includes the TD114V-R3 and TD126V-R2.)*	TD125V-R2
To add the spy functionality to Serialtest…	
Serialtest Spy Add-On	TD128V-R2