

frontine www.ffe.com

Serial test®

Async Serial Com Protocol Analyzer

RS-232/422/485 Sniffer

Troubleshoot Serial Data Communications Live

- High-speed, real-time data analysis.
- **Use on RS-232/422/485** with your serial ports (built-in, PCMCIA and PCI).
- Modbus RTU & ASCII decoders included for enhanced support of industrial applications.
- ► Also decodes: Async PPP, SLIP, TCP/IP.
- View & capture live data, control signals and error conditions: Display, decode, & filter; Errors shown in red.

Trusted Worldwide by:

- Field Engineers
- Communications Specialists
- Software & Hardware Developers
- Network Supervisors

Isolate Problems Fast in Three Powerful Modes

- Monitor, Source, & Spy (see below)
- Statistics Display summarizes DTE and DCE totals for bytes, frames, events, errors, characters and frames per second, utilization, and frame sizes.
- Analyze control signals using Signal Display and live Breakout Box.
- View raw Hex Data using the Event Display window.
- Work externally or from inside your PC to catch hard-to-find bugs.
- Store data in RAM or to any size disk file on the same PC running Serialtest. Or use a second PC.
- Use the RS-232 cable set. Optional hardware available.
- Create your own decodes with timetested FrameDecoder® tool.

More Features on Back

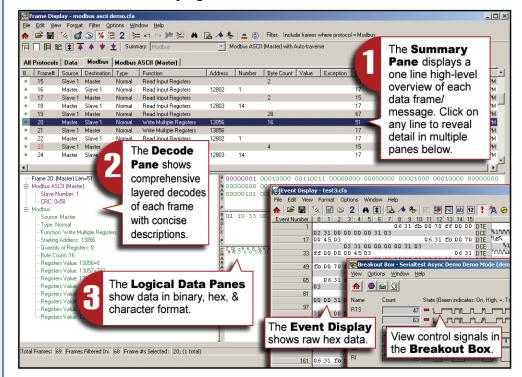
Designed by Engineers for Engineers

nce you've used Serialtest, you will never want to work on another serial communication problem without it. Serialtest will help you quickly and easily find and fix even the most obscure problems and save countless hours of troubleshooting time. It is portable and easy-to-use with power and flexibility. No matter what the industry, Serialtest is an indispensable troubleshooting tool.



Passively monitor serial communications by tapping the line using Frontline's custom cable set. A source cable is also included for transmitting signals directly to DTE & DCE devices.

Time-tested Frame Display Drills Down to Show Errors in Finest Detail



View, Capture, & Decode In Three Comprehensive Operating Modes

FrameDecoder

FrameDecoder comes standard to build your own custom decodes. A \$500 value!

Part of the Frontline Edge.

Monitor Mode

Shows exactly what is flowing between ANY two serial devices (bytes, control signals, and protocols). View live, capture, decode, filter & find errors fast.

Source Mode

Transmit DTE or DCE data in user-defined data strings to interactively test any serial device with the included customized source cable.

Spy Mode

Monitors internal serial port communications. Run and troubleshoot your datacom application on a single PC. No need for a second PC.

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Analyze synchronous serial data with our Serialtest ComProbe® solution. This specialized software and hardware monitors synchronous circuits and supports protocols such as Monosync, Bisync, HDLC, SDLC, X.25, SNA, and Frame Relay. Find and fix synchronous serial comm problems-FAST! Ask about it today.



Outstanding Technical Support

Whether you need help using a basic FTS product feature, want Frontline's explanation of the protocol stack, or have a question on using FrameDecoder to write a decode, you can be assured of a response that is friendly, thorough, and timely.

Trusted Expertise & **Unequaled Protocol Analysis Experience**

Frontline is a proven leader in the protocol analyzer industry. Since 1985 we have developed a host of technology sniffing tools and shipped over 40,000 units around the globe. Serialtest is the foundation of our growing family of Frontline Test System® (FTS®) protocol analyzers, each of which incorporates a timetested user interface and the FrameDecoder protocoldecoding engine. FTS analyzers support serial, Ethernet, Bluetooth®, USB, ZigBee™ and numerous industrial protocols and buses such as Modbus, DH+, and DeviceNet.

Guarantee & Free Premium

Use Serialtest for up to 30 days. If you are not convinced it is the best data analyzer for your application, you may return the product for a full refund. One year of Premium Maintenance is included. Serial Data moves fast with Frontline products so

you need more than Modbus

decodes in your serial analyzer, you

need to step up to our FTS4Control

industrial communications software

product. Supports serial, Ethernet and

industrial devices and networks with

DF1, PCCC, CSP, EtherNet/IP, DH+,

Modbus, BSAP, ROC/ROC+, DNP3,

IEC-60870 and soon ControlNet.

DeviceNet, CAN2.0A,

can you!

Power? Get Contt

DH-485,

Serialtest: Built for Troubleshooting

Data Interfaces	RS-232/422/485/449/530 (Some require extra hardware)	ſ
Data Rates	Up to 921.6K bps, including support for user-defined non-standard data rates	
Operating Modes	Monitor, Source, & Spy	
ommunication Modes	Asynchronous Only	
		•

Modbus RTU, Modbus ASCII, PPP,

SLIP. TCP/IP. user customized pro-

tocol stack, and custom decodes Software (including user-defined XON/XOFF characters), Hardware

TION COMITO	(RTS/CTS & DTR/DSR)
Character Sets	ASCII, 7-bit ASCII, EBCDIC. Baudot

Protocols

Flow Control

Parity	None, Even, Odd, Mark, Space
Vord Length	5, 6, 7, 8 bits

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More Displav Features & Benefits

- Control Signal Display shows live Breakout Box including timing diagrams and counters. Shows captured control signal transitions in relation to captured data bytes and packets.
- Analyze data as it's being captured using the Event Display and Frame Display windows.
- Detailed frame/packet level information. View and compare multiple frames side-by-side.
- Byte-level information displayed in split-line DTE over DCE or mixed format.
- Set filters on specific packet fields, including node addresses and frame type.
- Save an unlimited number of configurations.
- Search by timestamp, control signals, errors, and patterns.

Data Transmission & Timestamp

- **Transmit strings** or files once, multiple times, or continuously to hunt down errors.
- Insert delays by millisecond, second, or minute increments.
- Set control leads on or off.
- Timestamp resolution to 1 microsecond.
- View automatic calculation of delta time and effective data rate.

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Cooper Power, Detroit Edison, American Electric Power

Gaming Industry

Scientific Games, Bally Gaming Systems, MultiMedia

Heavy Industry

Caterpillar, John Deere

Medical / **Pharmaceutical**

Merck & Co., Pfizer, Tyco Healthcare, Baxter Healthcare

Transportation

GE Locomotive, Union Pacific Railroad, Canadian Pacific Railway

Minimum PC Requirements

- ▶ 1GHz Pentium PC or equivalent
- Windows XP
- ▶ 128 MB RAM + 50 MB free disk space
- A minimum of one serial port; Two for bidirectional monitoring

RS-422/485/449/530 require additional hardware in stock and ready to ship.

Maximum data rate supported is based on PC processor speed. USB serial ports and USB to parallel ports are currently not supported.

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