

## FTS4BT™ AND BPA™ 500 OPTIONS

*Bluetooth* wireless technology is an evolving and complex combination of software and hardware. For those new to *Bluetooth*, just getting a thorough understanding of how it works is a formidable task. But keeping up with the latest changes, from the baseband all the way to the profile level, is challenging to even the most experienced *Bluetooth* developers and test engineers. Add in 3.0 + HS, HCI sniffing and SD/SDIO transports, and an already complex environment becomes even more difficult to navigate, understand and troubleshoot.

The ComProbe BPA 500 Dual Mode *Bluetooth* Analyzer and the ComProbe FTS4BT Classic *Bluetooth* Protocol Analyzer are enhanced by optional add-ons for increased versatility.

### Key Features and Benefits

- Thorough Interoperability Testing**  
 The ComProbe FTS4BT decodes all *Bluetooth* protocols and most profiles; the ComProbe BPA 500 does it all.
- Find and Fix Problems Fast**  
 Captures, decodes, filters and displays data, and detects protocol errors live
- Debug Coexistence Issues**  
 With the ComProbe 802.11, captures/decodes *Bluetooth* and Wi-Fi data and displays both in a single intuitive graphical display
- Rapid Audio Quality Check**  
 Extract audio into WAV files for fast and detailed analysis - supports A2DP, HSP & HF Profiles
- Excellent Piconet Synchronization**  
 Supports v2.1 + EDR (v3.0 +HS with the ComProbe 802.11) - automatically handles decryption, pairing, role switches and hold, and sniffs low power modes
- Additional features include retransmitted packet counts, multiple export formats, graphic display of Packet Error Rate, reads BTSnoop files, analyzes HCI data captured over the UART interface, extensive selective filtering, and more...

### Modularity Means Power

ComProbe BPA 500 Dual Mode *Bluetooth* Protocol Analyzer and ComProbe FTS4BT Classic *Bluetooth* Protocol Analyzer meet those challenges head on with the versatility provided by multiple modular options, including Wi-Fi, SD/SDIO, USB and High Speed UART. Multiple points of entry (already designed into the BPA 500) are also provided by the Cabled ComProbe and the Secondary ComProbe.

Add-on Compatibility Chart

	802.11 Option	SD/SDIO Option	HCI via USB Option	HCI via UART Option	Cabled ComProbe	Secondary ComProbe
ComProbe BPA 500	✓	✓	✓	✓	Not Required	Not Required
ComProbe FTS4BT	✓	✓	✓	✓	✓	✓



### 802.11

Extend the BPA 500 and FTS4BT to include full v3.0 + HS data capture and decoding with the ComProbe 802.11. View *Bluetooth* and Wi-Fi data together on the graphical Coexistence View.

#### Analyze *Bluetooth* and Wi-Fi Data at a Glance

*Bluetooth* and Wi-Fi data are displayed in a common graph to assure that your application is operating at its intended efficiency.

#### No Dropped Packets

A huge internal data buffer means that you capture ALL the data, all the time.

#### Lock-Step Synchronization

When used with the BPA 500, Frontline's ProbeSync™ technology allows both devices to share a common clock, creating unparalleled 802.11 and *Bluetooth* time stamp synchronization.

#### Pin-Point *Bluetooth* and Wi-Fi Coexistence Issues at a Glance

*Bluetooth* and Wi-Fi packets are displayed, by channel, in real-time, color coded for easy identification, and are time-stamped to within one microsecond resolution.

#### Features:

- Combined *Bluetooth* and Wi-Fi throughput graph
- Numeric Data throughput readout for Average and Live (1 second window) payload
- Wi-Fi and *Bluetooth* channels identified on a single display
- Combined *Bluetooth*/Wi-Fi capture log
- Full, stand-alone Wi-Fi decoding and protocol analysis

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More add-on options on reverse...



## The Frontline Edge

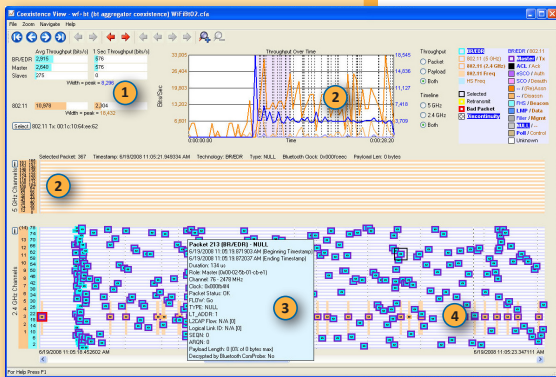
Whether you need help using a basic FTS4BT product feature, want Frontline's explanation of the protocol stack, or have a question on the DecoderScript™ language to write a decode, you can be assured of a friendly, thorough, and timely response.

## Includes DecoderScript™

Write custom decoders or modify existing decoders with the included DecoderScript language. Use your custom decoders just like any of the decoders supplied by Frontline. This can be useful to display items in a language other than English, or to extend decoders to work with non-standard protocols.

## Free Premium Maintenance

With ComProbe FTS4BT and ComProbe BPA 500, you will receive free software and protocol decoder upgrades for one year. After one year, it is inexpensive to keep your Premium Maintenance current.



1. Classic *Bluetooth* and *Wi-Fi* channels
2. Throughput graphs for average, 1 second and throughput over time
3. Tooltips with comprehensive packet details
4. *Wi-Fi* and *Bluetooth* packets in a single view



## SD/SDIO

Non-intrusive capture and analysis of SD, SDIO, MMC and SPI communications, as well as *Bluetooth* data carried over the SDIO physical layer.

- Supports 1 and 4-bit modes
- Captures data at High-Speed 480 Mbps
- Portable, powered by USB

## USB (HCI Sniffing)

Debug complex Host to Host Controller issues quickly with Frontline's ComProbe USB - decode *Bluetooth* and USB protocols for a full picture of your data.

- Capture and decode HCI data externally using the ComProbe USB or use the Internal Tap to sniff devices connected to your PC
- Portable, weighs less than 7 ounces (196 grams). Powered by USB (no external power supply necessary).

## High Speed UART (HCI Sniffing)

The High Speed UART (or HSU) option gives you a direct connection to your HCI UART transport layer.

- Sniff H4, H5 and BCSP
- Speeds up to 8Mb
- Portable, powered by USB

## Cabled ComProbe

The Cabled ComProbe is a Frontline *Bluetooth* ComProbe with an SMA connector to allow it to be connected via a cable for conductive (cabled) sniffing. The Cabled ComProbe is available only as an option for FTS4BT.

## Secondary EDR ComProbe

In most applications, the single CEDR omProbe supplied with FTS4BT is sufficient, but for capturing Scatter net and multipoint data, a ComProbe is required for each encrypted link. For this reason, Frontline offers Secondary ComProbes. A Secondary ComProbe may also may be used as a redundant sniffer.

If you need to capture data from a device with a *Bluetooth* chip that employs interlaced page scan, a Secondary ComProbe will significantly increase the consistency of synching. Any number of secondary ComProbes may be used in conjunction with your primary ComProbe. The Secondary ComProbe is available only as an option for FTS4BT.

## To order or for more information:

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