



FTS4BT™

CLASSIC BLUETOOTH® PROTOCOL ANALYZER



The ComProbe FTS4BT Classic Bluetooth Protocol Analyzer includes powerful ComProbe EDR software, the Bluetooth EDR hardware interface, and a secondary EDR hardware interface for interlaced page scanning.

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. With the addition of 3.0 +HS the job has gotten even more difficult. ComProbe FTS4BT Classic Bluetooth Protocol Analyzer can help navigate AMP Manager, enhanced L2CAP and right through to 802.11.

FTS4BT Meets the Challenge

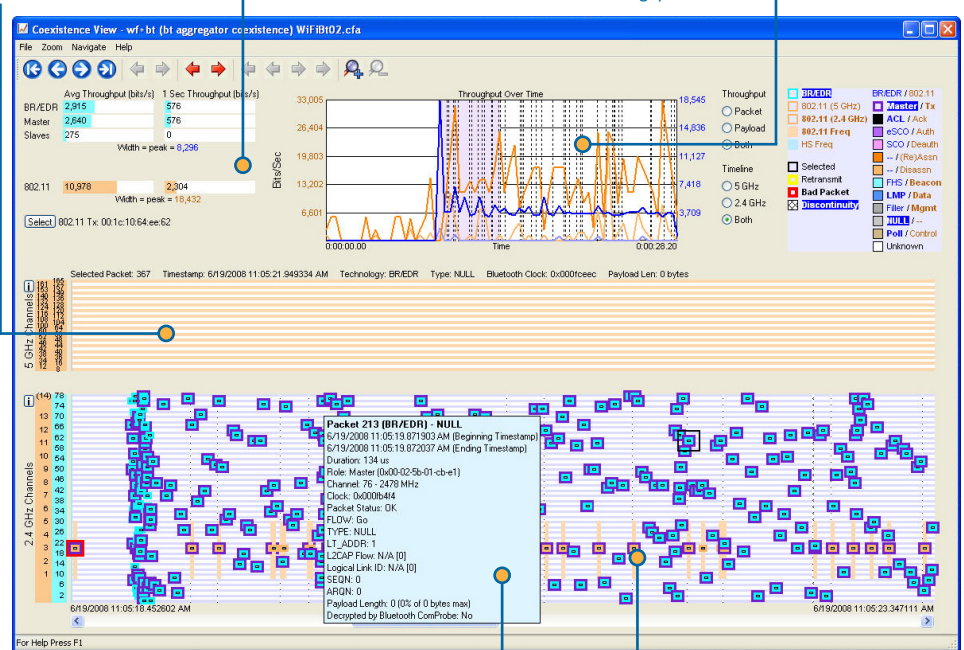
The ComProbe FTS4BT is the tool that developers and test engineers rely on to get them through the design, debug, test, verification, and qualification cycle in the shortest time possible. Our users tell us their products would have never made it to market in a timely fashion without it. No matter where you are in the Bluetooth development chain, you will find the ComProbe FTS4BT analyzer invaluable.

Key Features and Benefits

- **Thorough Interoperability Testing**
Decodes all Bluetooth protocols and most profiles
- **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...

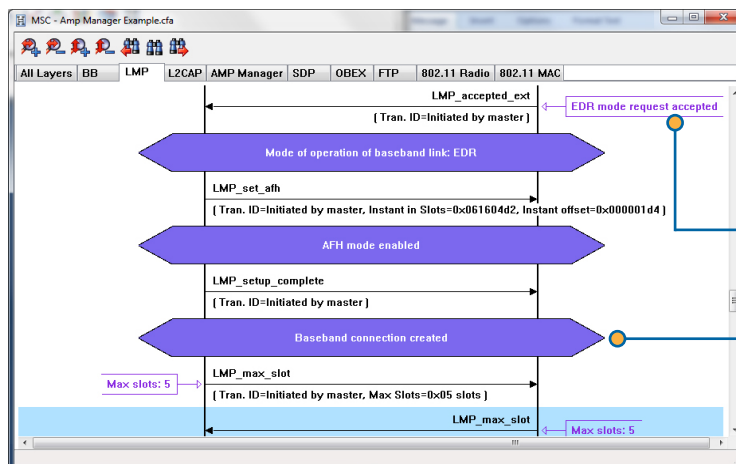
Classic Bluetooth and WiFi

Throughput graphs for average, 1 second and throughput over time.



Tooltips with comprehensive packet details

WiFi and Bluetooth packets in a single view



Message Sequence Charts provide readable views of complex data:

Messages translated from native spec format to easy-to-read comments

Clear identification of protocol states

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Hardware Specifications

- Additional ComProbe® hardware captures Scatternet traffic and creates redundancy to sniff a multi-point connection or slaves using interlaced page scan
- ComProbe 802.11: Captures Wi-Fi packets from *Bluetooth* v3.0 +HS for analysis and *Bluetooth*/Wi-Fi co-existence.
- ComProbe HSU sniffer: Capture UART data on embedded devices at speeds up to 8 Mb per second. Tap the interface between the host CPU and host controller, at TTL level to sniff H4, H5 and BCSP links.
- Cabled ComProbe: A *Bluetooth* ComProbe with an SMA connector allows you to perform conductive sniffing via a cable.
- ComProbe FTS4USB™ protocol analyzer: Tap a USB circuit and decode the data live and live. Supports USB-HCI decoding and Low, Full and High Speed USB.
- Transports: HCI USB (H2), HCI UART (H4), HCI Three-Wire UART (H5), BCSP

- Protocols:

AVDTP Recover	Baseband 3.0 +HS
AVDTP Report	LMP
BNEP	HCI
AT Commands	L2CAP eL2CAP
AMP Manager	SDP
AVCTP	RFCOMM
AVDTP Signaling	TCS
AVDTP	OBEX
MCAP	AVDTP Media

- Profiles

A2DP	BIP
AVRCP	BPP
AVRCP Browsing	FTP
FAX	OPP
Hands Free	PBAP
HCRP	SYNC
HDP	SAP
Headset	SPP
HID	

- 802.11

802.11b
802.11g
802.11a
802.11n

The ComProbe® FTS4BT™ Hardware Interface

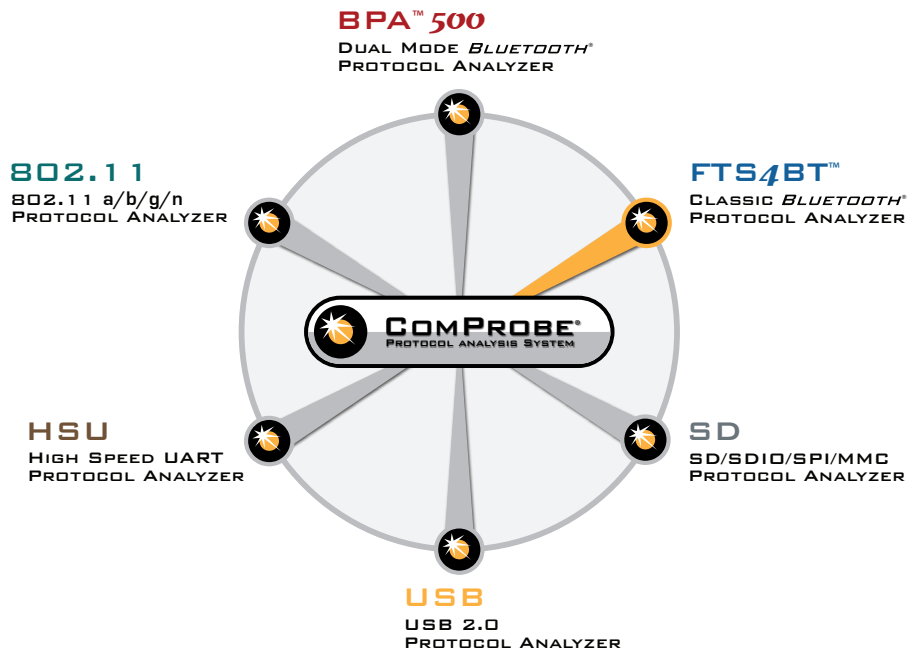
The ComProbe FTS4BT Classic Protocol Analyzer includes the *Bluetooth* EDR hardware interface and a secondary EDR hardware interface (for interlaced page scanning), both of which support the wireless capture of “classic” *Bluetooth* communications.



The *Bluetooth* EDR hardware interface is one member of an extensive arsenal of technology-specific hardware interfaces, all functioning with the powerful ComProbe software. This modular approach allows greater flexibility in protocol analysis and debugging, and provides comprehensive coexistence views over virtually any combination of protocols.

Minimum PC Requirements

- Pentium PC 1Ghz or faster
- Windows XP (32-bit) or Windows 7 (32-bit or 64-bit)
- 1GB RAM required, 2GB recommended
- 50MB free disk space
- USB port for basic air sniffing and one additional USB port for each additional optional hardware interface



The ComProbe Modular Approach

ComProbe software is at the core of Frontline protocol analysis, allowing technology-specific hardware interfaces to work individually or in combination with other hardware interfaces. This modular approach gives the developer or analyst the widest possible range of scenarios for debugging complex communications.

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