ComProbe
PROTOCOL ANALYSIS SYSTEM

BPA® 600

DUAL MODE *BLUETOOTH*® PROTOCOL ANALYZER

Bluetooth low energy wireless technology has changed how the wireless world connects. Dual mode devices - single devices that combine low energy and Classic *Bluetooth* - are making the already complicated task of developing *Bluetooth* technologies that much more complex. The **ComProbe® BPA® 600 Dual Mode *Bluetooth*® Protocol Analyzer** combines low energy and BR/EDR data in the same intuitive displays, simplifying and accelerating the debugging process. The introduction of ProbeSync also made it possible for developers to view *Bluetooth* and 802.11 data, locked together and displayed in one comprehensive coexistence view for the very first time.

The ComProbe BPA 600 Protocol Analyzer includes powerful ComProbe software and the Dual Mode *Bluetooth* hardware interface.

Key Features and Benefits

- **Ultra-Portable**
  USB-powered and tiny footprint means you decide where and how to work

- **Greatest Possible Accuracy**
  ProbeSync™ technology synchronizes timestamps between multiple ComProbes and technologies

- **Faster Debugging**
  Bluetooth low energy and Classic *Bluetooth* data is displayed in a single graphical user interface

- **See events as they occur** through live decoding and decryption of encrypted data

- **Every Profile and Protocol**

- **Maximum Flexibility**
  DecoderScript lets you specify decodes for custom protocols

- Capture multiple LE connections from the same LE or dual mode master

- Follow pairing and decrypt encrypted traffic including Secure Simple Pairing

- **Better Visibility**
  Visibility into all three advertising channels concurrently, even before connection is established

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frontline®
Debug Communications Faster℠

But the world is growing more mobile, and as engineers' applications, products and testing situations have become less confined to the test bench, Frontline has responded with a tool that is as portable as the devices it was designed to test.

Portability and Power

At long last, developers can unplug from the AC outlet and take their testing and development operations where these technologies actually live - the real world. Running on **USB power**, the ComProbe BPA 600 lets you decide how and where to work.

But portability is only the beginning - the BPA 600 is equipped with more radios than the BPA 500, leaving the door open to imminent improvements like greater diversity of sniffable scenarios, and support for *Bluetooth* 4.1, currently in development.

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

Classic *Bluetooth* and low energy channels

Classic and low energy packets in a single view

Tooltips with comprehensive packet details

From detailed decodes to concise graphical depictions of complex data, the USB-powered **ComProbe BPA 600 Dual Mode *Bluetooth*® Protocol Analyzer** is the most powerful and portable dual mode Bluetooth analyzer on the market today.

Hardware Specifications

- **Bus Type:**
  USB 2.0 Mini B, compatible with USB1.1

- **Operating Frequencies:**
  2402 MHz – 2480 MHz

- **Effective Receiver Sensitivity (conducted, not radiated):**
  -90.0 dBm for GFSK

- **Power:**
  USB

- **Dimensions:**
  5" X 2.75" X 1.0625"
  127mm X 70mm X 27mm

- **Weight:**
  0.44lb / 200g

- **Temperature:**
  Storage Temperature: 0° to 40° Celsius
  32° to 104° Fahrenheit

  Operating Temperature:
  5° to 55° Celsius
  41° to 95° Fahrenheit

- **Humidity:**
  Operating: 10% to 90% RH (noncondensing)

- **Debugs every** *Bluetooth* **Profile and Protocol**

AVDTP Recover	Baseband
AVDTP Report	LMP
BNEP	HCI
AT Commands	L2CAP eL2CAP
AMP Manager	SDP
AVCTP	RFCOMM
AVDTP Signaling	TCS
AVDTP	OBEX
MCAP	AVDTP Media
A2DP	BIP
AVRCP	BPP
AVRCP Browsing	FTP
FAX	OPP
Hands Free 1.6	MAP
HCRP	PBAP
HDP	SYNC
Headset	SAP
HID	SPP

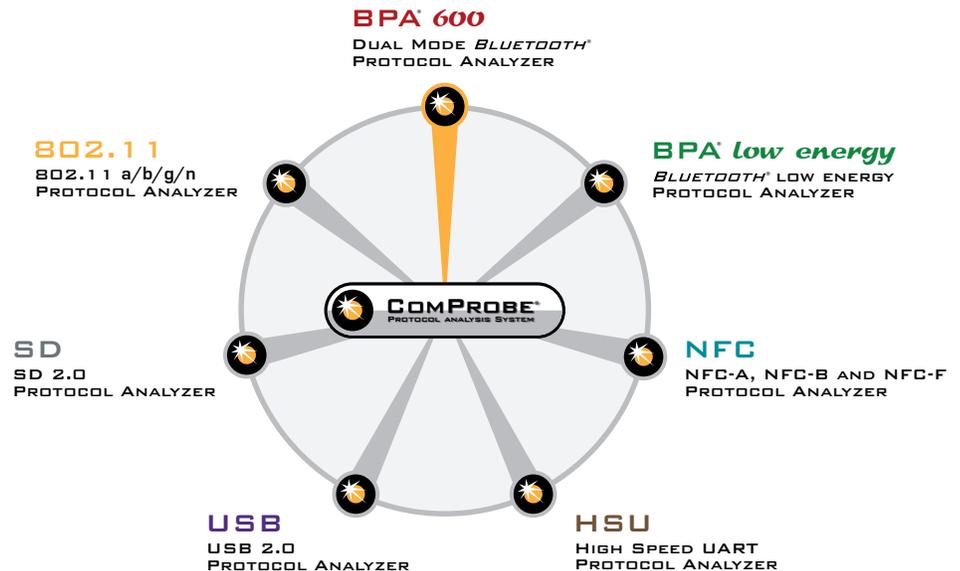## The ComProbe BPA 600 Hardware Interface

The ComProbe BPA 600 Protocol Analyzer includes the Dual Mode *Bluetooth* hardware interface, which supports the wireless capture of "classic" and low energy *Bluetooth* communications.

The Dual Mode *Bluetooth* 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 2Ghz or faster
- Windows XP (32-bit) or Windows 7 (32-bit or 64-bit)
- 2GB of RAM
- 50MB free disk space
- USB 2.0 port

BPA 600
DUAL MODE *BLUETOOTH*
PROTOCOL ANALYZER

802.11
802.11 a/b/g/n
PROTOCOL ANALYZER

BPA *low energy*
BLUETOOTH LOW ENERGY
PROTOCOL ANALYZER

ComProbe
PROTOCOL ANALYSIS SYSTEM

SD
SD 2.0
PROTOCOL ANALYZER

NFC
NFC-A, NFC-B AND NFC-F
PROTOCOL ANALYZER

USB
USB 2.0
PROTOCOL ANALYZER

HSU
HIGH SPEED UART
PROTOCOL ANALYZER

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.

To order or for more information:

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