

frontline

# BPA® 600

## DUAL MODE *BLUETOOTH*® PROTOCOL ANALYZER



The Frontline BPA 600 Protocol Analyzer includes powerful Frontline 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 devices 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
- **Maximum Flexibility**  
DecoderScript lets you specify decodes for custom protocols
- **Every Profile and Protocol** including full *Bluetooth* 4.2 support
- **Roleless Single/Multi Connections**  
No longer need to specify which device is master and slave
- Follow pairing and decrypt encrypted traffic including Secure Simple Pairing
- **Pre-Connection Traffic**  
See pre-connection paging, response, polling, FHS and acknowledgement packets, and visibility into all three advertising channels concurrently.

The explosive rise of *Bluetooth* Smart and Smart Ready devices has made the already complicated task of developing *Bluetooth* technologies more complex and more urgent than ever. The **Frontline® 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, while ProbeSync makes it possible for developers to view *Bluetooth* and 802.11 data, locked together and displayed in one comprehensive coexistence view.

As applications, products and testing situations have become more mobile and demanding, we have responded with the most powerful and portable *Bluetooth* analyzer available today.

### Portability, Power and Pre-Connection Traffic

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 and smaller than a paperback book**, the Frontline BPA 600 lets you decide how and where to work.

Portability is only the beginning - the powerful BPA 600 features:

- role-less single and multi connections, which no longer require the user to specify which device is the master and which is the slave
- decryption of multiple connections
- automatic programmable link key insertion to BPA 600 from 3rd party software tools or debug applications, and link key now reverses automatically when necessary
- support for CSRMesh and *Bluetooth* mesh technology
- *Bluetooth* 4.2 support

Want to see pre-connection traffic? The BPA 600 shows it to you. Paging, response, polling, FHS and acknowledgement packets are captured and displayed as they happen.

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 **Frontline BPA 600 Dual Mode *Bluetooth*® Protocol Analyzer** is a powerful and portable option for dual mode *Bluetooth* analysis.

## 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 65° Celsius  
32° to 149° Fahrenheit  
Operating Temperature: 5° to 55° Celsius  
41° to 131° Fahrenheit
- **Humidity:**  
Operating: 10% to 90% RH (noncondensing)
- **Debugs every Bluetooth Profile and Protocol, including:**

### Core Specifications: All through Bluetooth 4.2 Classic Profiles:

3DPS	FTP	HFP	PBAP
A2DP	GAVDP	HID	SAP
AVRCP	GNSS	HSP	SDP
BIP	GOEP	MAP	SPP
BPP	HCRP	MPS	SYNCH
DI	HDP	OPP	VDP
DUN		PAN	

### Low Energy Profiles:

- Alert Notification
- Blood Pressure
- Cycling Power
- Cycling Speed and Cadence
- Find Me
- Glucose
- HID over GATT
- Heart Rate
- Health Thermometer
- Location and Navigation
- Phone Alert Status
- Proximity
- Running Speed and Cadence
- Scan Parameters
- Time

### Low Energy Services:

- Alert Notification
- Battery
- Blood Pressure
- Cycling Power
- Cycling Speed and Cadence
- Current Time
- Device Information
- Glucose
- HID
- Heart Rate
- Health Thermometer
- Immediate Alert
- Link Loss
- Location and Navigation
- Next DST Change
- Phone Alert Status
- Reference Time Update
- Running Speed and Cadence
- Scan Parameters
- Tx Power

## The Frontline BPA 600 Hardware Interface

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



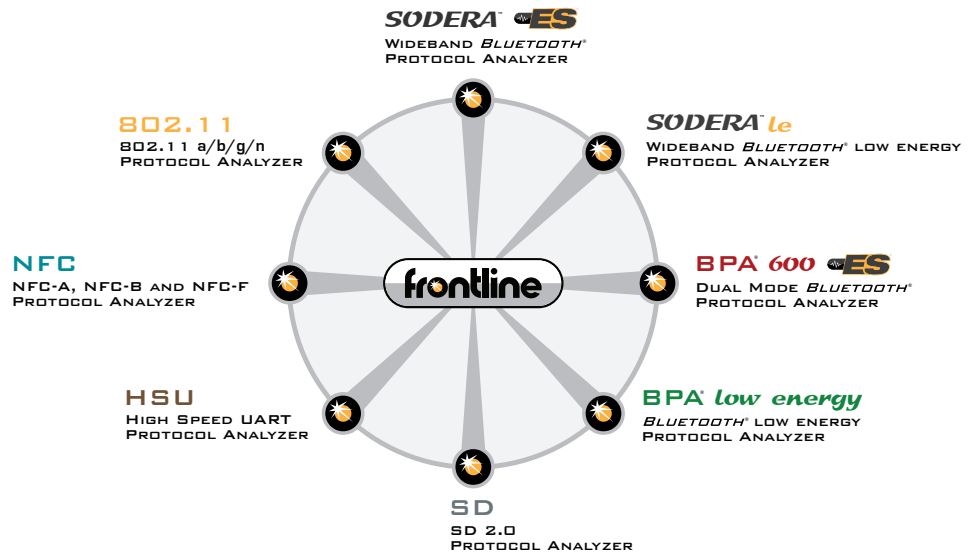
The Dual Mode *Bluetooth* hardware interface is one member of an extensive arsenal of technology-specific hardware interfaces, all functioning with the powerful Frontline software. This modular approach allows greater flexibility in protocol analysis and debugging, and provides comprehensive coexistence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

## Supported Configurations

- OS Supported: Windows 7, 8 and 10
- USB Port: USB 2.0 or USB 3.0 High-Speed

## Minimum System Requirements

- Processor: Core i5 processor at 2.7 GHz
- RAM: 4 GB
- Free Hard Disk Space: 20 GB



## The Frontline Modular Approach

Frontline 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:

www.fte.com  
frontline\_onlinesales@teledyne.com  
1.800.359.8570 US & Canada  
+1.434.984.4500  
Fax: 434.984.4505



**TELEDYNE LECROY**  
Everywhere you look™