Frontline SODERA™

Wideband Bluetooth® Protocol Analyzer

Frontline Sodera is a highly portable, wideband Bluetooth protocol analyzer that captures ALL Bluetooth traffic.

THIS PRODUCT SUPPORTS **Bluetooth® 5** SPECIFICATION

Key Features and Benefits

- Capture ALL over-the-air and chip level (HCI) Bluetooth packets
- Bluetooth / Wi-Fi Coexistence with Frontline 802.11 Analyzer
- Every Bluetooth channel captured concurrently for decryption and analysis at any time
- Faster root cause analysis on protocol and audio issues with Bluetooth Protocol and Bluetooth Audio Expert Systems
- All profiles and protocols supported through Bluetooth 5
- Intuitive analysis of multiple wireless devices and connections
- User-replaceable battery and small footprint lets you work when and where you need to
- Software defined radio architecture is ready for future Bluetooth updates
- Support for CSRMesh and Bluetooth mesh technology
- Spectrum analysis helps identify potential RF conflicts
- Logic Analysis highlights signal information and state changes

TELEDYNE LECROY
Everywhereyoulook™

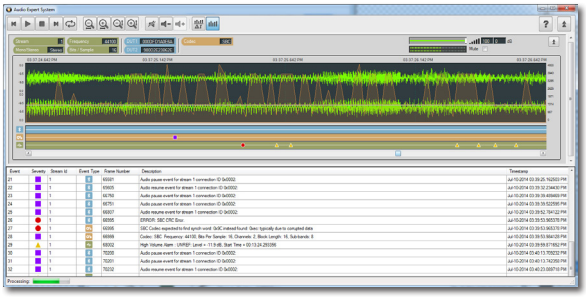
We have redefined Bluetooth protocol analysis with a tool that makes it easier for professional developers and engineers to get great new wireless products to market faster.

Supporting all profiles and protocols through Bluetooth 5, Frontline Sodera concurrently captures all over-the-air and HCI (with provided cables) Bluetooth packets (BR/EDR/LE) across all channels, including paging, inquiry, secure connections, secure simple pairing, and data exchange packets. Simply start the analyzer and begin capturing - the raw data can be decrypted, decoded and filtered later. BFrontline Sodera's software-defined radio architecture means that it not only supports Bluetooth 5, but is ready to grow with updates to the Bluetooth specification.

The Frontline Sodera provides the ultimate in portability, allowing developers and QA engineers to effortlessly capture data not just in the lab, but in automotive and other remote settings. "Excursion Mode" allows the developer to capture all Bluetooth traffic in the air with the push of one button, completely unfettered by a PC connection. Data can be captured in the real-world setting, then decrypted and analyzed back at the lab. Supported by Frontline Sodera's compact size and quick-change battery, testing in automobiles and other power-sparse environments becomes not just possible, but absolutely convenient.

Expert Systems Provide Faster and Easier Root Cause Analysis of Bluetooth Protocol and Audio Issues

Frontline Sodera works with the Bluetooth Protocol Expert System and the Bluetooth Audio Expert System software modules to quickly pinpoint Bluetooth protocol-related issues. The Bluetooth Protocol Expert System provides developers at all experience levels with concise in-depth analysis of configuration, HCI/transport, and Bluetooth profile issues and errors. Additionally, it provides test tools which allow the user to actively enhance their debugging scenarios for greater precision and more robust products by synchronizing audio, codec, and Bluetooth protocol events directly back to the protocol trace.



The Bluetooth Audio Expert System provides real-time visualization of audio impairment events that are time correlated with Bluetooth protocol and transport events, enabling the user to clearly see and thoroughly understand what's happening at the precise moment audio problems occur. No more guesswork- the Bluetooth Audio Expert System visually and in real time correlates protocol, codec and audio events to the moment of the audio error, making root cause diagnoses faster and easier than ever.

Hardware Specifications

- **Power:**
  9-17 VDC
- **Dimensions:**
  6.25” wide X 2.125 tall” X 6.5 deep”
  158.75 mm X 53.975 mm X 165.1 mm
- **Weight:**
  2.2 lbs
- **Bus Type:**
  USB Standard Type-B
- **Operating Frequencies:**
  2402 MHz – 2480 MHz
- **Sensitivity Range**
  -85.0 dBm to +10 dBm
- **Supported Demodulators**
  BR/EDR and LE (GFSK, π/4 DQPSK, 8DPSK)
- **Timestamp Resolution**
  125 ns
- **Operating Temperature:**
  5° to 35° Celsius (41° to 95° Fahrenheit)
- **Humidity:**
  Operating: 10% to 90% RH (noncondensing)
- **Regulatory Compliance**

PSE	FCC part 15 B
CE	NRTL
ARIB T-66	EMC
EN 60950	

Supported LE Profiles (above core spec):

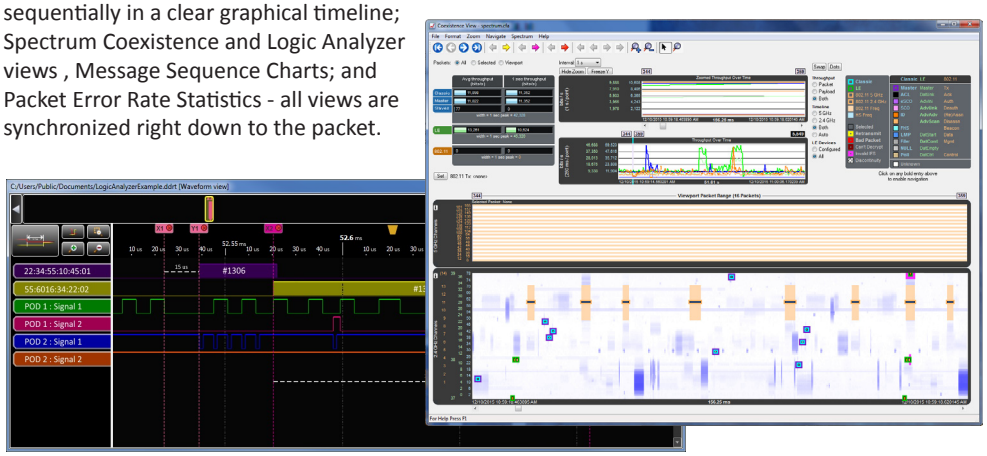
- ATT

Supported LE Protocols (above core spec):

- Alert Notification
- Automation IO
- Battery
- Blood Pressure Monitor
- Current Time
- Cycling Speed and Cadence
- Device Information
- DST Change
- Find Me
- Generic Access Profile
- Generic Attribute Profile
- Glucose
- Health Thermometer
- Heart Rate Monitor
- HID over GATT
- Immediate Alert
- Link Loss Alert
- Network Availability
- Notification
- Phone Alert Status
- Proximity
- Pulse Oximiter
- Reference Time Update
- Runners Speed and Cadence
- Scan Parameters
- Time
- Tx Power
- Watchdog

The Software You Already Use

Frontline Sodera works seamlessly with Frontline Protocol Analysis Software; “Frame Display” for packets in tabular format based on profiles and protocols; “Timeline View” to see packets displayed sequentially in a clear graphical timeline; Spectrum Coexistence and Logic Analyzer views , Message Sequence Charts; and Packet Error Rate Statistics - all views are synchronized right down to the packet.

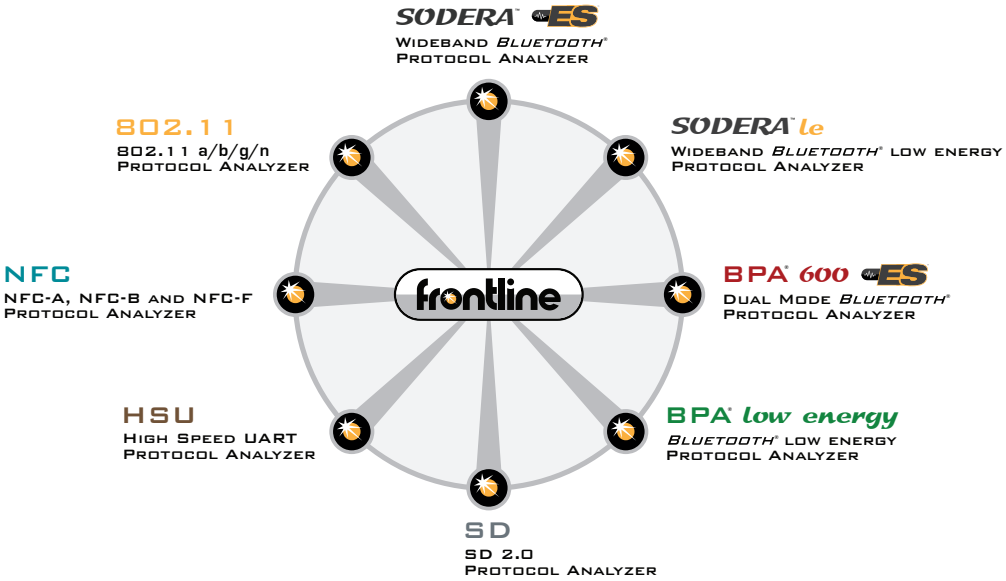


Supported Configurations

- 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:

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