



# Frontline® 802.11

## a/b/g/n Protocol Analyzer

### Key Features and Benefits

- **3x3 MIMO (3 streams)**
- **Get the Data You Need**  
Fewer dropped packets with our built-in ~250GB buffer
- **Trust the Data You Get**  
Get exact timing information for each packet - the Frontline 802.11 provides reliable and accurate timestamps for all captured packets
- **Synchronized Wi-Fi and Bluetooth Packets**  
In tandem with the Frontline Sodera, the Wireless Protocol Suite's coexistence tool combines 802.11 and Bluetooth packets into one view with precise timestamp synchronization using Frontline's ProbeSync technology
- **Broad Protocol Support**  
The Frontline 802.11 Protocol Analyzer supports 802.11 a, b, g and n protocols
- **Up-to-the-Minute Decodes Means Thorough Analysis**  
Analyze devices using the spectrum of 802.11 protocols - 802.11 a/b/g/n support means you don't have to wonder if an 802.11 protocol is supported

The 3x3 MIMO Frontline 802.11 protocol analyzer lets you passively capture 802.11 wireless traffic to troubleshoot Wi-Fi communications, but can also help the Bluetooth developer determine how Bluetooth packets are impacted by 802.11 traffic.

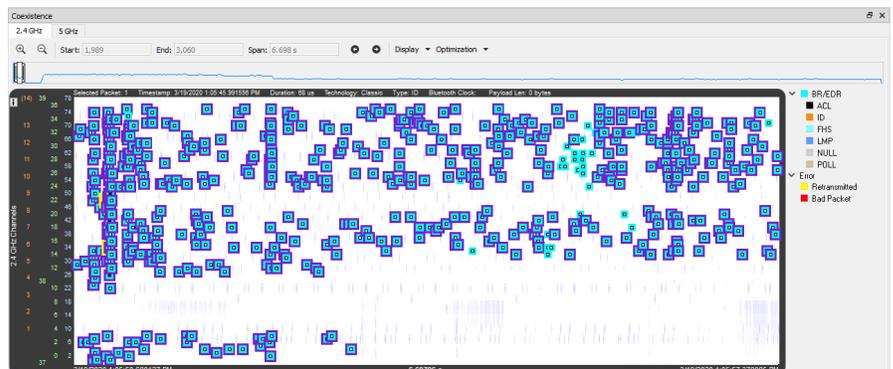
The sheer volume of 802.11 data flowing between devices can be staggering, which can cause issues capturing and decoding the traffic. The Frontline 802.11 protocol analyzer has an in-built ~250GB data buffer to passively capture 3x3 MIMO Wi-Fi traffic real-time.

### Wi-Fi and Bluetooth Coexistence

The analysis of 802.11 and Bluetooth data packets in one view is possibly one of the most challenging tasks for wireless device developers. Capturing the precise timing, size, and frequency of each and every packet is essential to successfully developing and debugging devices using both technologies.

- Massive buffer - fewer dropped packets
- 3x3 MIMO (3 streams)
- Precise packet synchronization with Bluetooth data with the Frontline Sodera
- Improved coexistence view
- Spectrum analysis

Either as a stand-alone 802.11 or in combination with the Frontline Sodera, the Frontline 802.11 is the precise and comprehensive analysis tool you need for 802.11 and Bluetooth over wireless communications.



Bluetooth BR/EDR, low energy and 802.11 packets are shown by channel and over time in the same windows. Tool tips reveal comprehensive packet details.

## Specifications

### Supported Systems

- 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

### 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

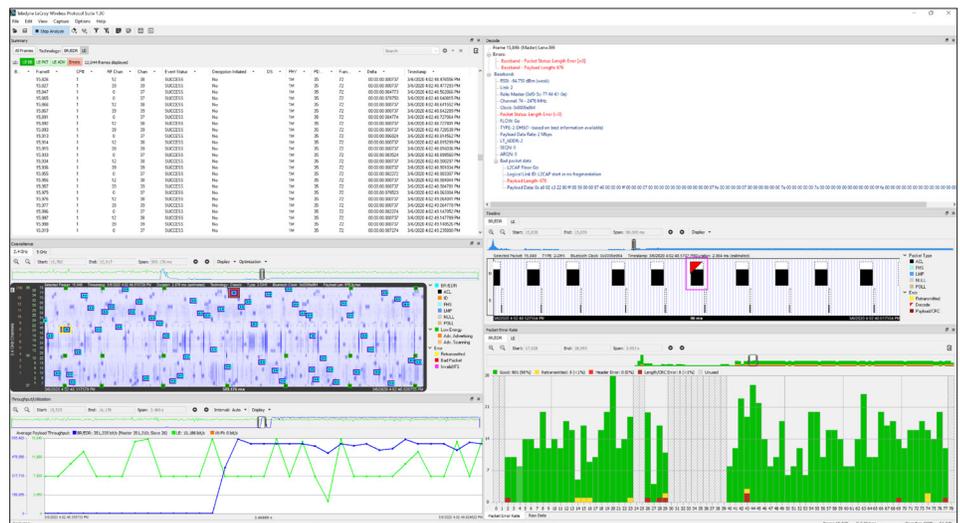
- Operating: 10% to 90% RH (noncondensing)

The Frontline 802.11 can be connected via ProbeSync™ with the Frontline Sodera Series Bluetooth analyzers to provide a single capture with Wi-Fi and Bluetooth packets time-aligned in the Wireless Protocol Suite Coexistence view. The captured data can be reviewed real-time or saved as a file for post capture analysis.

In addition up to 3 802.11 analyzers may be connected together using ProbeSync™ to capture 3 Wi-Fi channels simultaneously.

## All Your Tools on One Dockable Screen

Teledyne LeCroy's Wireless Protocol Suite combines Frontline's decades of protocol analysis experience and up-to-the-moment spec support with a streamlined interface, bringing all analysis tools into a single dockable framework that can be customized to your own preferred way of working and evaluating information. When paired with Teledyne LeCroy's uniquely portable and configurable family of wireless protocol analyzers, the Wireless Protocol Suite delivers a world class software experience to anyone working with technologies that utilize the 2.4GHz ISM band.



## Ordering Information

### Product Description

802.11 a/b/g/n Protocol Analyzer.....

### Product Code

2014-15001-000

### To order or for more information:

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