



# 802.11

## 802.11 a/b/g/n PROTOCOL ANALYZER



The ComProbe 802.11 Protocol Analyzer includes powerful ComProbe software and the 802.11 a/b/g/n hardware interface.

Introducing the ComProbe 802.11 a/b/g/n protocol analyzer, the latest addition to the world-class suite of ComProbe analyzers from Frontline.

The ComProbe 802.11 protocol analyzer lets you passively capture wireless traffic like never before. No other device on the market provides the precision, reliability, or capacity to gather wireless data better than the ComProbe 802.11 protocol analyzer!

The sheer volume of 802.11 data flowing between devices can be staggering, but gone are the days when you missed or dropped packets because your analyzer simply couldn't keep up with the amount of data flowing through the air. Frontline has met the challenge head-on by building into the ComProbe 802.11 analyzer a staggering ~250GB data buffer. This means you are going to get all the data, all the time.

### Key Features and Benefits

- Get the Data You Need**  
 See ALL of the data ALL of the time - never drop a packet and capture 100% of the data with our built-in ~250GB buffer
- Trust the Data You Get**  
 Get exact timing information for each packet - the ComProbe 802.11 provides reliable and accurate timestamps for all packets
- Coexistence Packets in Lock-Step**  
 In tandem with the ComProbe BPA 600 or BPA 500, the coexistence window combines 802.11 and *Bluetooth* 4.0+HS packets into one view with precise timestamp synchronization using Frontline's ProbeSync technology
- Up-to-the-Minute Decodes Means Thorough Analysis**  
 Analyze devices using the full 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

### 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, and until now has been, at best, an elusive objective.

The ComProbe 802.11 analyzer replaces the 3.0+HS add-on used with the ComProbe BPA® 500 Dual Mode *Bluetooth* protocol analyzer (Classic *Bluetooth* and low energy) and the ComProbe FTS4BT® protocol analyzer (Classic *Bluetooth* only). By comparison the ComProbe 802.11 analyzer surpasses this previous add-on in every respect.

- Capture all the data - no dropped packets
- Precise packet timestamps synchronized with the ComProbe BPA 600 or BPA 500 through ProbeSync™ technology, which allows devices to share a common clock
- Improved coexistence view

Either as a stand-alone 802.11 or in combination with the BPA 600 or BPA 500, the ComProbe 802.11 is the precise and comprehensive analysis tool you need for 802.11 and *Bluetooth* over 802.11 wireless communications.

Throughput graphs for average, 1 second and over time



802.11  
5 GHz  
channels

802.11,  
Classic  
*Bluetooth*,  
*Bluetooth*  
low energy  
2.4 GHz  
channels



Tooltips with comprehensive packet details

802.11, Classic *Bluetooth* and *Bluetooth* low energy packets in a single view

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