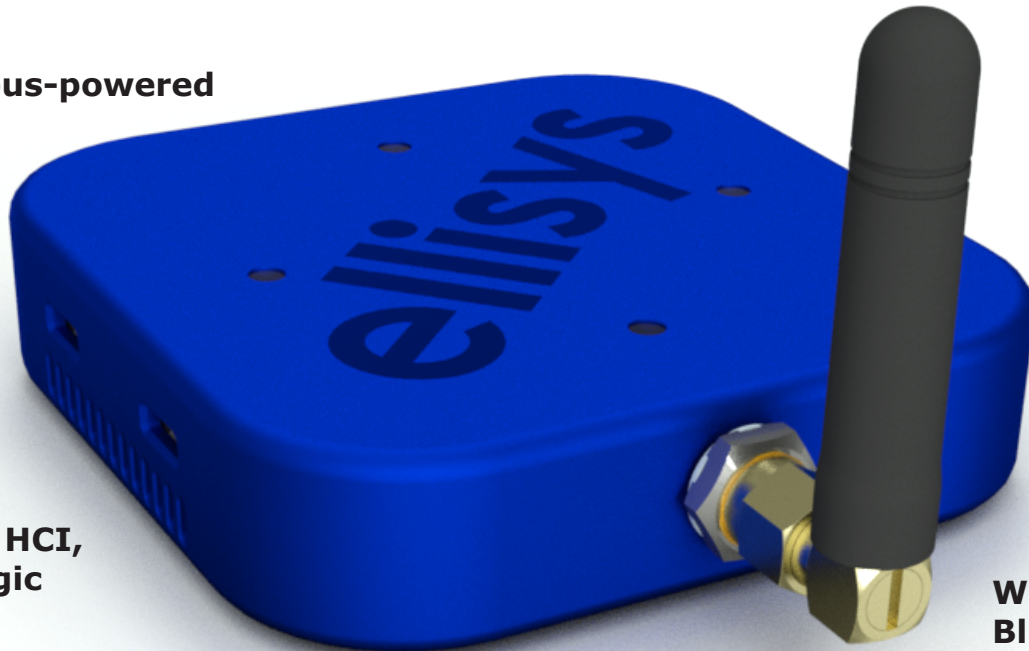


# Bluetooth Low Energy and Wi-Fi Protocol Analyzer

## Ellisys Bluetooth Tracker

USB bus-powered



UART/SPI HCI,  
WCI-2, Logic

Wideband  
Bluetooth LE  
Spectrum  
Wi-Fi

### Sales Contact

Email: [sales@ellisys.com](mailto:sales@ellisys.com)

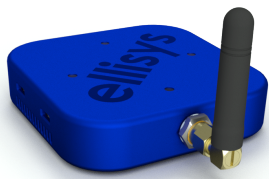
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**ellisys**  
Better Analysis

### Key Points:

- **All-in-One:** wired and wireless, concurrently, perfectly synchronized
- **Wideband Capture:** easy and rock-solid capture of all Bluetooth Low Energy channels
- **Reprogrammable Digital Radio:** ready today for tomorrow's specifications
- **Wi-Fi:** debug your Wi-Fi a/b/g/n and BLE connections simultaneously, as well as coexistence
- **Raw Spectrum Capture:** characterize the wireless environment and visualize interferences
- **Logic Analysis:** visualize digital signals such as GPIOs, interrupts, debug ports, etc.
- **Extremely Compact:** pocket-sized at 7.5 x 7.5 x 1.7 cm (2.9 x 2.9 x 0.7")
- **USB Powered:** portable, convenient and environmentally friendly
- **All Protocols and Profiles:** best-of-breed protocol decoding
- **Free Maintenance:** never a charge for software updates, free fully-featured viewer



# Ellisys Bluetooth Tracker

## BLE and Wi-Fi Protocol Analyzer



## Technical Specifications

### Bluetooth Capture Characteristics

- Ellisys Rainbow™: Wideband, concurrent capture of all BLE channels
- Frequency band: 2.402-2.480 GHz
- Sensitivity range: From -90 to +15 dBm
- Gain: Programmable from -30 to +15 dB
- Modulations: All BLE modulations (GFSK 1 Mbps and 2 Mbps)
- Baseband: Support of Bluetooth 5, upgradeable by software

### Wi-Fi Capture Characteristics

- 802.11 a/b/g/n
- Channel width 2.4GHz: 20 MHz
- Channel width 5GHz: 20 MHz
- 11n MCS 2.4 GHz 20 MHz channel: 0 to 7
- 11n MCS 5 GHz 20 MHz channel: 0 to 7

### Logic Capture Characteristics

- Maximum bandwidth: 50 MHz
- Sampling precision: 5 ns
- Supported input voltage: 1.8 to 3.3V

### HCI Capture Characteristics

- UART / SPI transports: Up to 8 Mbit/s, automatic detection of all parameters

### Embedded Memory

- 128 MB of FIFO memory
- Data is stored in highly optimized format
- Analyzed data is uploaded in real time through USB 2.0 connection

### Timing

- Clock: ±10 ppm frequency accuracy over -10 to +60 degrees Celsius range
- BLE timestamp accuracy: 125 ns
- Wi-Fi timestamp accuracy: 1 us
- Logic timestamp accuracy: 5 ns

### Connectors

- Capture: Standard SMA female
- Logic: 16 logic signals
- Sync: Multi-unit synchronization ports
- Control: USB 2.0 connection to control PC
- Power: Optional 5V power input, max 3W

### Enclosure

- 75 x 75 x 17 mm (2.9 x 2.9 x 0.7")
- 100 g (0.2 lbs)

### Hardware Upgrade

- The Ellisys Rainbow™ engine is automatically updated with each software release (no user intervention required)

### Maintenance and Licensing

- Free lifetime updates – no maintenance fees
- Free full-featured viewer application – easily share annotated traces between computers and colleagues
- Use Ellisys hardware on any computer – no additional licenses needed

### Warranty

- Two-year limited warranty for Professional and Enterprise editions
- One-year limited warranty for Basic and Standard editions

Ellisys reserves the right to change the features and specifications of the product without notice.

## Ordering Information

Description	Code
<b>Ellisys Bluetooth Tracker Basic</b> Hardware unit with Basic features set	BTR1-LE-BAS
<b>Ellisys Bluetooth Tracker Standard</b> Hardware unit with Standard features set	BTR1-LE-STD
<b>Ellisys Bluetooth Tracker PRO</b> Hardware unit with PRO features set	BTR1-LE-PRO
<b>Ellisys Bluetooth Tracker Enterprise</b> Hardware unit with Enterprise features set	BTR1-LE-ENT

## Configurations

Editions	BAS	STD	PRO	ENT
Wideband BLE capture	x	x	x	x
BLE 5.0 capture			x	x
Wi-Fi capture				x
Spectrum capture				x
HCI capture (UART, SPI)			x	x
Logic capture			x	x
Advanced software features		x	x	x
Warranty	1yr	1yr	2yr	2yr

More information on: [www.ellisys.com/btracker](http://www.ellisys.com/btracker)

