

# Open Sniffer

[www.sewio.net](http://www.sewio.net)

for wireless sensor networks

## Applications

- wireless sensor network monitoring
- network performance analysis
- protocol stack development and testing
- network deployment
- network troubleshooting

## Features



industry standard  
Wireshark® based

protocol dissectors  
IEEE802.15.4, Zigbee  
6LoWPAN  
LightWeight Mesh

→ 2.4GHz WorldWide  
multiple bands support  
31 channels  
→ 915MHz USA  
→ 868MHz EU  
→ 780MHz China

Sniffer Mode - passive capturing frames

Energy Scanner - spectrum analyzer

CT Mode - transmission mode for testing

Packet Injection Mode - sending user defined frames

Network Scan - detection of 802.15.4 networks



## Control

User config via web interface

Programmatic control via HTTP API

## System Requirements

Internet Browser (Web administration & configuration)  
Wireshark (analysis and visualization)  
Standard Personal Computer

## Power Supply

5V DC supply (jack 3.1 connector)  
500mA

## Power Consumption

250mA

## Dimensions

81x72mm

## Weight

130g

## Environmental

0°C - 50°C (32°F - 122°F)

## Warranty

1 year

# Channel list

IEEE 802.15.4

Freq / Channel	Modulation
780 / 0	OQPSK-RC-250
782 / 1	OQPSK-RC-250
784 / 2	OQPSK-RC-250
786 / 3	OQPSK-RC-250
868 / 0	BPSK-20
906 / 1	BPSK-40/OQPSK-SIN-250
908 / 2	BPSK-40/OQPSK-SIN-250
910 / 3	BPSK-40/OQPSK-SIN-250
912 / 4	BPSK-40/OQPSK-SIN-250
914 / 5	BPSK-40/OQPSK-SIN-250
916 / 6	BPSK-40/OQPSK-SIN-250
918 / 7	BPSK-40/OQPSK-SIN-250
920 / 8	BPSK-40/OQPSK-SIN-250
922 / 9	BPSK-40/OQPSK-SIN-250
924 / 10	BPSK-40/OQPSK-SIN-250
2405 / 11	OQPSK-250
2410 / 12	OQPSK-250
2415 / 13	OQPSK-250
2420 / 14	OQPSK-250
2425 / 15	OQPSK-250
2430 / 16	OQPSK-250
2435 / 17	OQPSK-250
2440 / 18	OQPSK-250
2445 / 19	OQPSK-250
2450 / 20	OQPSK-250
2455 / 21	OQPSK-250
2460 / 22	OQPSK-250
2465 / 23	OQPSK-250
2470 / 24	OQPSK-250
2475 / 25	OQPSK-250
2480 / 26	OQPSK-250

## Sub-GHz

Receiver Sensitivity  
up to -110 dbm

Energy Detection  
dynamic range 87 dB  
resolution 1 dB

Transmitter Power  
-11 dBm to 10 dBm

## 2.4 GHz

Receiver Sensitivity  
up to -101 dbm

Energy Detection  
dynamic range 81 dB  
resolution 1 dB

Transmitter Power  
-17 dBm to 3 dBm



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