

nRF Sniffer for Bluetooth® low energy



nRF Sniffer for BL

Agenda

- Why a BLE sniffer?
- What is nRF Sniffer?
- What can nRF Sniffer do
- What's required
- Demo







nRF Sniffer for BLE

Why BLE sniffer?

- A lot is happening on the air So it helps to see what
- A sniffer allows you to see all the on-air activity – Not just events from the stack
- Significantly simplifies development and troubleshooting
- Commercial sniffers cost \$15,000 and upwards
- There is a need for a low cost tool to sniff packets – nRF Sniffer







nRF sniffer \$100





What is nRF Sniffer

BLE packet sniffer that runs on nRF51822 EV-KIT

Nordic software for sniffer
Licence free
UI is Wireshark
Powerful protocol analyzer application
Allows lots of customization and filtering of packets
Licence free
Open-source

nRF Sniffer for BLE

What can nRF Sniffer do?

- Sniffs all activity on a single device
 - Advertising
 - Connection
 - Encrypted connection
- The Single device is a Nordicsemi nRF8001, nRF8002 or nRF51822 (S110) with a master device from any company
- Python based interface to use the sniffer in test infrastructure and production tests
- Limitations
 - Can sniff only one device when the device is in a connection







What's required?

In RF51822 EV-KIT or dongle
Only runs on Windows 7 & 8
Nordic nRF Sniffer download
www.nordicsemi.no
Wireshark protocol analyzer
www.wireshark.org

WIRESHARK

NRF Sniffer.zip

WIRESHARK

NRF Sniffer.zip

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nRF Sniffer Demo







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