

# Frontline® NFC

## NCF-A, NFC-B and NFC-F Protocol Analyzer



### Key Features and Benefits

- See events as they occur through live decoding and decryption of encrypted data
- Compact footprint delivers big features to developers of NFC and Bluetooth technologies
- USB-powered means excellent portability and simpler device setup - just plug into the USB port and go!
- Excellent Value  
The low-cost ComProbe NFC features maximum value for the money
- Industry-best Decodes  
NFC decodes that no one else in the industry can match
- Maximum Flexibility  
DecoderScript lets you specify decodes for custom protocols
- Faster to Market  
Reduces debug time with simultaneous live capture, display, decode, filtering and detection of protocol errors

As Near Field Communication technologies are incorporated in consumer electronics with increasing frequency, developers have demanded a product that can debug and analyze this set of standards accurately and affordably. Frontline has the answer - the Frontline NFC Protocol Analyzer, a low cost, portable and feature-rich analysis tool that comes packed with the quarter century of decoding experience that has made us the industry expert in communications analysis.

### NFC Developers Looking for the Right Tool for the Job

Frontline NFC harnesses the power of the Frontline Protocol Analysis System software to analyze and debug NFC technology as used in applications demanding device to device, device to tag, and device as tag data transfer. Bluetooth® developers exploiting the out of band pairing aspect of NFC

communications will find a place for the Frontline NFC on their workbench.

The Frontline NFC Protocol Analyzer is a portable, USB-powered, and affordable tool for the NFC and Bluetooth developer, and features the rich decoding toolset represented by the powerful Frontline Protocol Analysis System software that lives at the core of all Frontline developer-class protocol analysis products.



Two billion NFC-enabled devices are in use today (IHS). NFC is driving the explosion of mobile payments and leading the way to commissioning and controlling the predicted 36 billion IoT devices in use by 2020. (Gartner)



## Hardware Specifications

- **Bus Type:**  
USB 2.0 Type A, compatible with USB 1.1
- **Operating Frequency:**  
13.56 MHz
- **Power:**  
USB Powered
- **Dimensions (assembled):**  
5.87" X 1.57" X .59"  
149mm X 40mm X 15mm
- **Weight (assembled):**  
< 1 oz
- **Temperature:**  
Storage Temperature: 0° to 40° Celsius  
32° to 104° Fahrenheit  
  
Operating Temperature:  
5° to 55° Celsius  
41° to 95° Fahrenheit
- **Humidity:**  
Operating: 10% to 90% RH  
(noncondensing)

## Decoding Support

- Supports NFC-A and NFC-B (106 Kbps)
- Supports NFC-F (212 Kbps, 424 Kbps)
- ISO Data Exchange Protocol (ISO-DEP) for Type 4A and 4B Tag Platforms
- NFC Data Exchange Protocol (NFC-DEP) and Logical Link Control Protocol (LLCP) for Peer-to-Peer communications
- NFC Data Exchange Format (NDEF)
- Simple NDEF Exchange Protocol (SNEP) and NDEF Push Protocol (NPP)
- Connection Handover including Bluetooth Out-of-Band (OOB) Pairing

**Decode Pane** shows comprehensive layered decoders of each frame/message with clear, concise descriptions.

**Logical Data Pane** shows data in binary, hex and character format.

The Frontline NFC Protocol Analyzer includes the NFC hardware interface (consisting of the main unit, detachable antenna and stand) which supports the non-intrusive wireless capture of NFC communications, and the powerful Frontline software.



## Ordering Information

### Product Description

Frontline NFC-A, NFC-B and NFC-F Protocol Analyzer

### Product Code

2014-16000-000

### To order or for more information:

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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