LCN9810 NFC scanner Datasheet

2021-07-15

PG Services and Tools

NFC scanner

In case you have problems reading a driver, we recommend to start using an NFC scanner.

- When your smartphone has no or weak NFC-antenna
- When the driver cannot be reached with your smartphone
- We have noticed that some drivers cannot be read by some smartphones running on Android 9 (or higher). This NFC scanner will solve this.

This device communicates via BLE with your smartphone.

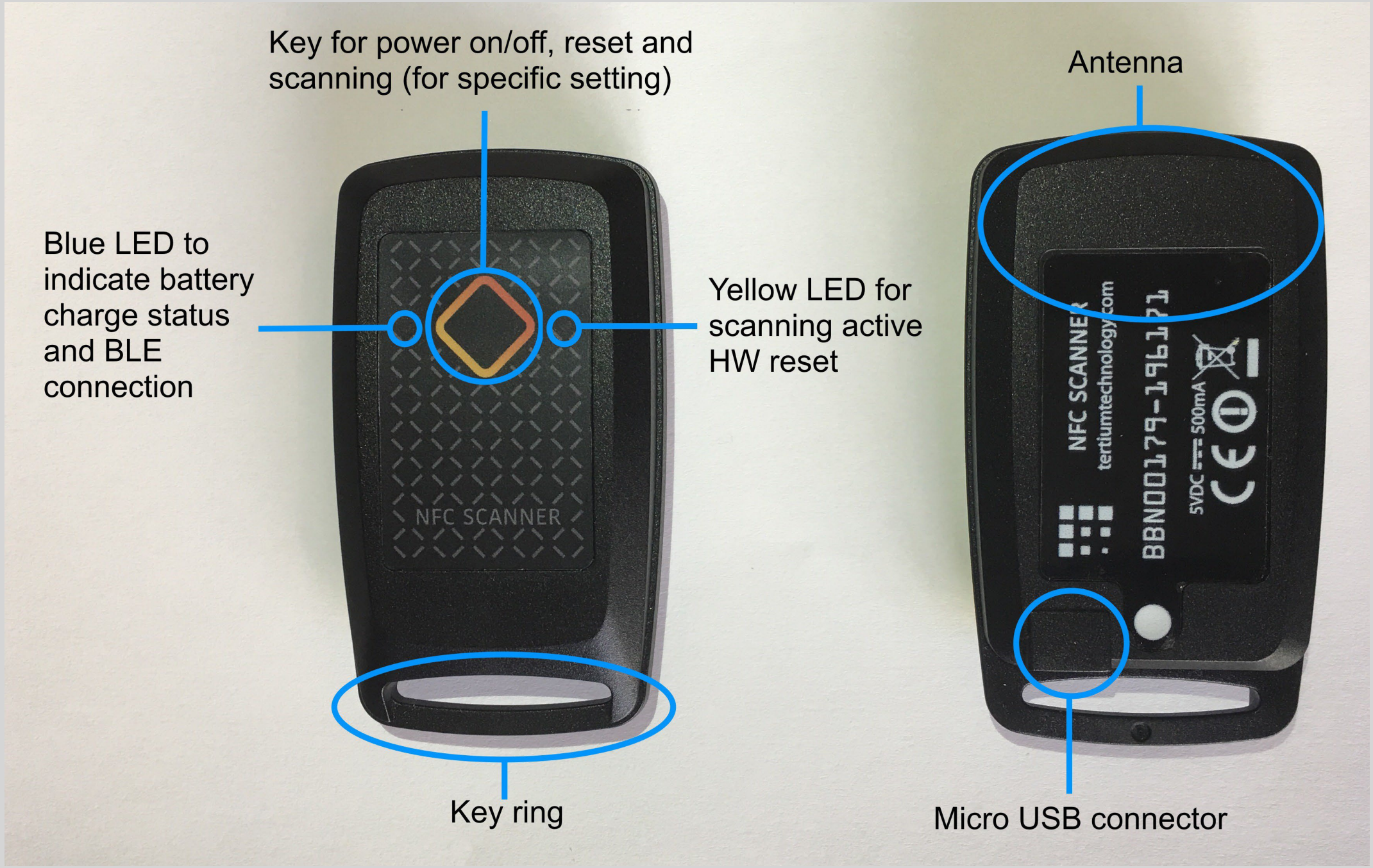
The NFC scanner has a secure BLE connection with the smartphone
The NFC scanner is available in the sample web shop:

Home page | Philips OEM Sample Shop EMEA

BLE = Bluetooth Low Energy

NFC = Near Field Communication

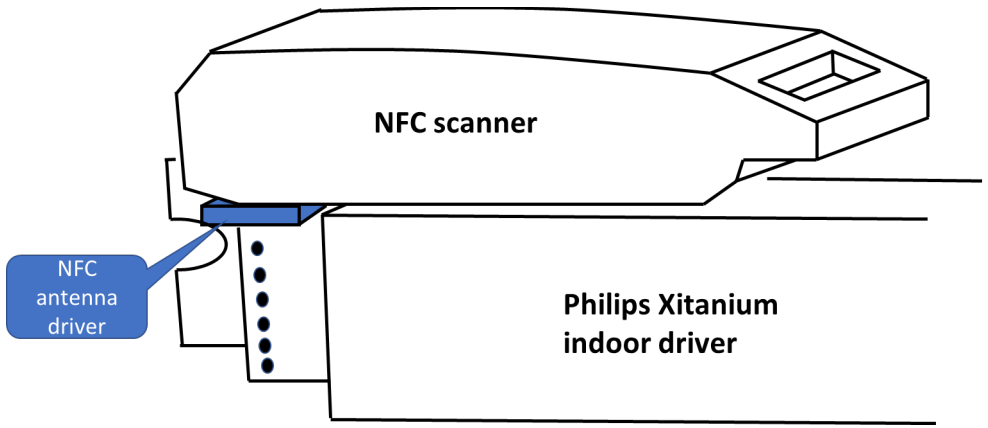
The NFC scanner enables you to read/write Philips drivers

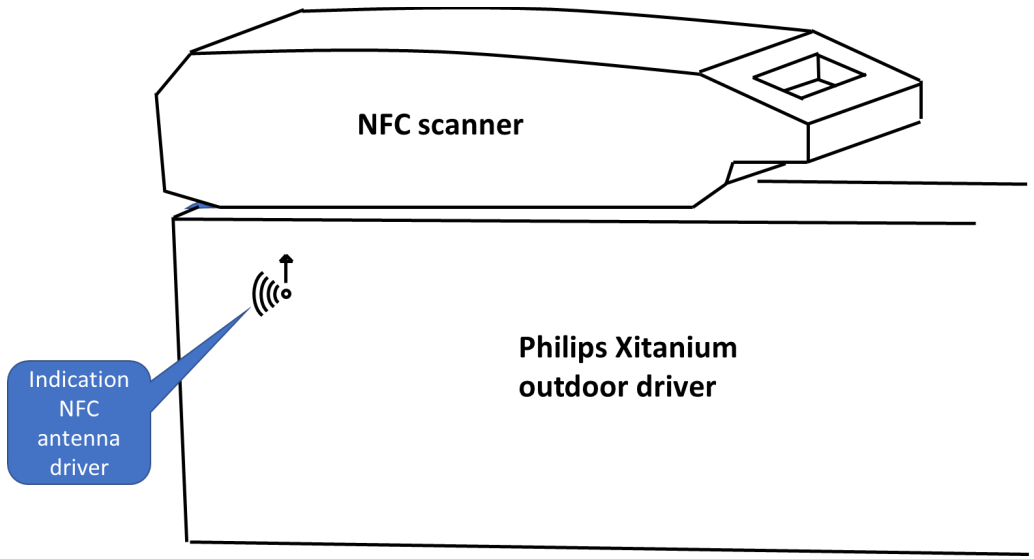

Key for power on/off, reset and scanning (for specific setting)
Antenna
Blue LED to indicate battery charge status and BLE connection
Yellow LED for scanning active HW reset
NFC SCANNER
NFC SCANNER
tertiumtechnology.com
BBN00179-19611
5VDC 500mA
Key ring
Micro USB connector

How to use the NFC scanner?

- Make sure the battery of the NFC scanner is charged sufficiently, use the micro USB connector near the key-ring to charge. A low battery will have less good communication capabilities
- Switch on the NFC scanner by the pushbutton (see previous slide)
- The scanner will switch off automatically after approximately 5 minutes
- Position the antenna of the scanner parallel to the antenna of the driver for optimal connection (see explanation next slide)
- In case the communication is not as good as can be expected, please experiment by changing the position of the NFC scanner relative to the driver
- When reading or writing data to or from the driver you do not need to push the pushbutton

Best position of the NFC scanner relative to the PHILIPS driver





Button, LED's and Beeper

Action	Light Displayed	Light Sequence	Beep Sequence	Status - Function
				Off
1 sec. hold				Start Devices
				Power On
				Scanning
				Successful reading
				Reading error

Scan Functions

2 sec. hold				Shutdown
				Battery Low
USB connected				Battery Recharge
plugging USB				Start Devices
		 Max 10 s		Battery Low no operations allowed
				Bluetooth disconnected
6 sec. hold				Hardware reset

Battery Status

Specifications

MAN/MACHINE INTERFACES	1 function key for RFID read activation, poweron/off
	Multitone Beeper
	2 LED for device operation signaling
INTERNAL DEVICES	Frequency: 13.56 MHz
	Channel occupancy in accordance with: • ETSI EN 302 330-2 V1.6.1, ETSI EN 300 328 V1.9.1
	Power: 200 mW
	Standard: ISO 15693, ISO 14443-A (only ID reading)
	Reading distance: up to 6 cm(*)
	Embedded antenna
INTERFACES	Micro USB type B
	Bluetooth® low energy technology
OS COMPATIBILITY	Android, iOS, RIM, Windows Mobile/Phone, Windows, OSX, Linux compatible with Bluetooth® low energy technology
PROCESSOR	Texas Instruments MSP430 (16 bit RISC a 16MHz)
POWER SUPPLY	**USB powered**: 230mA peak @ 5Vdc (RF active full power,beeper,battery charging), 30mA @ 5Vdc (idle mode,battery charged)
	Battery powered: Li-Poly Battery 3.7 Vdc 300mAh, rechargeable via micro USB, battery life 15000 reading, 24 h in idle mode
WORKING TEMPERATURE	-20°C / 60°C
DIMENSIONS	Width 4.3 cm – Height 7.7 cm – Depth 1.7 cm
WEIGHT	21 g
PROTECTION DEGREE	IP54

(*) depending on the TAG

Tertium manual

ANNEX MultiOne Mobile – example of Specification format

Summary_Xi SR 40W 0.2-0.7A SNEMP 230V C133 sXt 22-10-2020 16-04-50.txt - Notepad

File Edit Format View Help


```
{
  "aloValue": "78%",
  "aocValue": "200mA",
  "dateAndTime": "22 oktober 2020 16:04:24",
  "deviceName": "Xi SR 40W 0.2-0.7A SNEMP 230V C133 sXt",
  "dynadimValue": "Not Enabled",
  "firmwareVersion": "1.0",
  "globalProductCode": "929001573506",
  "gps": "51.3584784, 5.3301111",
  "historyFaultCode": "[0, 0, 0, 0, 0, 0, 0, 0, 0, 0]",
  "systemOnTime": "0 hr(s) 0 min 0 s",
  "systemStartsCount": "0",
  "uniqueProductId": "E0024D84D8C27041"
}
```


signify