

### NFC Reader 3911 User Manual

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**Revision History** 

Date	Version	Release Notes
Jan 2025	v1.0	First Release

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### **1. Introduction**

The NFC Reader 3911 is an open-source, ready-to-use development kit featuring the ST25R3911B, a highly integrated HF reader / NFC initiator IC.

It is especially suitable for communicating with ST25DV via mailbox to upgrade device firmware or read or set device configurations.

### 2. Key Features

- Support for STSW-ST25PC001 Windows® PC software, developed to demonstrate RF communication with all ST25 tags
- STM32L476RET6 32-bit microcontroller with 512 kB of Flash memory
- Based on ST25R3911B high-performance HF reader / NFC initiator.
- ISO 18092 (NFCIP-1) active P2P
- ISO14443A, ISO14443B and FeliCa<sup>™</sup>
- ISO15693
- Micro-USB connector for communication with the host PC and board powering
- Six LEDs indicating the presence of the RF field and of the protocol used to communicate

### **3.** Application

• Device information interaction

#### 4. How to communicate with the NB DISCO 95 development kits

#### 4.1 What do you need to prepare?

- $\sqrt{}$  Connect the NB DISCO 95 development board to your PC via micro USB
- $\sqrt{}$  Connect the NFC Reader 3911 to your PC via micro USB
- $\sqrt{}$  Download and install <u>Serial port utility</u> Windows® PC software
- √ Download and install <u>STSW-ST25PC001 Windows® PC software for ISO15693</u>,



ISO14443-A/B, NFC and industrial readers - STMicroelectronics

The recommended version is 2.6.2

		Get Software		
	Part Number	General Description	Download 🔶	All versions
+	STSW-ST25PC001	PC software for ISO15693 & ISO14443-A/B readers (Executable)	Get latest	Select version $\lor$
+	STSW-ST25PC002	PC software for ISO15693 & ISO14443-A/B readers (Source)	Get latest	3.0.0 <b>±</b> 2.6.2 <b>±</b>

#### 4.2 Scan the NFC tags



Step 1: Open the ST25PC-NFC software ST25PC

- Step 2: Press the NFC Reader 3911 S1 button once to reset the device, The 6 LEDs are fully lit to indicate that the reset is successful;
- Step 3: Click Reader → Disconnect → Connect, When ST25R3911B-DISCO CONNECTED is displayed, it means that the NFC reader 3911 is connected to the PC successfully;



Step 4: Open the serial port utility tool and press the NB DISCO 95 S1 button once to reset the device. Then hold the NFC reader 3911 close to the ST25DV module of the NB DISCO 95 and click Scan Once.

When connected to ST25PC-NFC PC software, use the NFC reader 3911 to approach the ST25DV module of the NB DISCO 95. The serial port will print Enter FTMManagement, and when it is removed, it will print Exit FTMManagement.

ST25PC-NFC	Serial Port Utility - Personal Edition	
File Reader Tags Demos Hel	File Edit View Tools Control He	lp
Turne LUID		
E0025067B185BF07	Serial Port Setting	GPO_Activated
	Port COM3(USB-SERIAL ~	Exit FTMManagement
	Baudrate 9600 ~	GPO_Activated
	Data Bits 8 ~	Enter FIMManagement Exit FTMManagement
	Parity None ~	GPO_Activated
	Stop Bits 1	Enter FTMManagement
	Flow Type None	
	Receive Setting	
	• Text O Hex	
	□ Auto Feed Line	
	<pre>Display Send</pre>	
	🗌 Display Time	
	Send Setting	
Select Inventory Protocols:	• Text • Hex	
✓ ISO15693/NFC Type5	Line by Line	
ISO14443-A/NFC Type2 & Type4		
ISO14443-B/NFC Type4B		
ISO14443-B/SRi/ST25TB		
TYPE1/TOPAZ		
ISO18092/TYPE3		
PICOPASS		
Scan Once		
Continuous Scan		
Reset RF Field 🗸 🧹		

#### 4.3 Get the NB DISCO 95 development board data

Click on the Recv a buffer in a file option, click the start button, and wait for the device to collect sensor data, and then save the content as a Recv\_sensor\_data.txt



View Recv\_sensor\_data.txt file content and serial port logs as follows.

Recv_sensor_data.txt × +	-	
Recv_sensor_data.txt       +         {       *         *SHT3x_Temp":27.74,       *         *SHT3x_Hum*:68.5,       *         "RTD_Temp":28.10,       *         *Soil_Temp":25.3,       *         *Soil_Moisture":20.2,       *         *Soil_EC":30,       *         "ADS115_IN0":5.480,       *         "ADS115_IN1":5.497,       *         "MQTTUERVAL":10,       *         "WQTTUSERNAME":"ScoHwIBKw0VOCAFAQEbKig",       *         "MQTTUSERNAME":"ScoHwIBKw0VOCAFAQEbKig",       *	<pre>rial Port Utility - Personal Edition - C Edit View Tools Control Help co  COM4(USI Control Help Port COM4(USI Control Help SHT3x_Temp:27.74C SHT3x_Temp:27.74C SHT3x_Temp:27.74C Soil_Temp:28.10C Soil_Temp:28.10C Soil_Temp:25.3C Soil_Moisture:20.2% Soil_EC:30US/cm ADS115_IN0:5.480mA ADS115_IN2:12.202V ADS115_IN3:3.323V Auto Feed Line Display Send Display Send Port Comtrol Help Control Help Contro</pre>	x נ
"MQTTPUBTOPIC":"channels/ /publish", "MQTTSUBTOPIC":" }	Display Time Exit FTMManagement AT+QCFG	Send

#### 4.4 Set the NB DISCO 95 development board configurations

First, Move the NFC reader 3911 board away from the ST25DV module, then use the AT+QCFG command to query the current configuration of the NB DISCO 95 development board. Remember to press the ENTER key to wrap the line after the AT command. The serial port logs are as follows.



Suppose the following configurations need to be changed;



Use the NFC reader 3911 to approach the ST25DV module of the NB DISCO 95.

ST25PC-NFC	
File Reader Tags Demos Hel	p 1
Type UID ST25DV-I2C	ST25DV-DISCOVERY     FTM demos
E0025067B183 ST25DV-PWT	vi • STEVAL-SMARTAG1 Language Parameter Device Configuration • Legacy FTM demos • DISCOVERY - FTM demos
	1. Select a target : E0025067B185BF07 (ST25DV04KC-I)  2. Select a demo :  Check board version  Firmware Upgrade Send a picture  Perceive a picture  Perceive a picture
	2 All tags targeted Other settings available in Preferences menu 3 Receive a buffer in a file
	Please select a file
	Send sensor configuration.txt
	3. Prepare the Discovery Kit firmware (Touch the FTM icon):
Select Inventory Protocols:           ✓         ISO15693/NFC Type5           ✓         ISO14443-A/NFC Type2 & Type4           ISO14443-B/NFC Type4B         ISO14443-B/SRi/ST25TB           ▼IPE1/TOPAZ         ISO18092/TYPE3	4. Select an action:
PICOPASS Scan Once	4 Start Stop Pause Resume
Continuõus Scan	Transfer progress: Transfer time: 00:00:45

Finally, Move the NFC module away from the ST25 module and use the AT+QCFG command to see if the configuration has changed. The serial port logs are as follows.

🗐 💿 🕨 🚺 🔲 🗘	+- 🗖 🔅
Serial Port Setting Port COM3(USI ~ Baudrate 9600 ~ Data Bits 8 ~	OK FTM_SEND_DATA finished Exit FTMManagement AT+QCFG +VER: v1.0 +BAT: 3306
ParityNoneStop Bits1Flow TypeNone	+UPINTERVAL: 20 +UPFORMAT: 1 +MQTTTLS: 0 +SERVERADDR: mqtt.thingsboard.cloud,1883
Receive Setting	+MQTTCLIENTID: dukFdr6ZpuBIZZHwMEa +MQTTUSERNAME: dukFdr6ZpuBIZZHwMEa +MOTTPASSWORD: helloworld
<ul> <li>Auto Feed Line</li> <li>✓ Display Send</li> <li>✓ Display Time</li> </ul>	+MQTTPUBTOPIC: v1/devices/me/telemetry +MQTTSUBTOPIC: null
Send Setting • Text	AT+QCFG Send

#### 4.5 Upgrade the firmware of the NB DISCO 95 development board

Use the NFC reader 3911 to approach the ST25DV module of the NB DISCO 95.

Click on the Firmware Upgrade option and select a file NB DISCO 95 Application\_NFC\_OTA v1.1.bin





The update is successful when an update applied log appears on the serial port. The serial port logs are as follows.



### 5. How to upgrade the NFC reader 3911 firmware

Step 1: Download and install STM32CubeProg - STM32CubeProgrammer software for all

<u>STM32 - STMicroelectronics</u> Windows® PC software, the recommended version is 2.14.0;

#### **Get Software**

	Part Number	General Description	Latest version 🔶	Download 🍦	All versions
+	STM32CubePrg-Lin	STM32CubeProgrammer software for Linux	2.17.0	Get latest	Select version V
+	STM32CubePrg-Mac	STM32CubeProgrammer software for Mac	2.17.0	Get latest	Select version V
+	STM32CubePrg-W32	STM32CubeProgrammer software for Win32	2.17.0	Get latest	Select version V
+	STM32CubePrg-W64	STM32CubeProgrammer software for Win64	2.17.0	Get latest	Select version
					2.14.0 📩
					2.13.0 🛓
					2.10.0 📥

Step 2: Short-circuit the boot pin and 3V3 pin through the yellow jump, then press the S1 button once to reset the device;





Step 3: Open STM32CubeProgrammer PC software STM32Cub...



Prg S	TM32CubeProgrammer							- 0 ×
STM32	1					🚯 Data Informatio	on Notice	F 🖪 🖌 🤟 😽
Cube	Programmer					_		
=	Memory & Fil	le editing						Not connecte
	Device memory	+					1	USB  Connect 3
	Address Do opp	Since		Dete width	Card I			USB configuration
	Address 0x0800	JUUUUU V Size	0x400	Data width 32	2-bit • Find I	Jata Ox	Read 🔹	Port USB1 2- 🕫
OB								Serial number 205435A5423
CPU								PID 0xdf11
swy								VID 0v0492
	-							David Unavertext (MCU)
				No data to	display			TZEN Regression (MCU)
				110 0010 10	( and profile			TZEN Regression (MCO)
<u>(?1</u> )	las				Line 1	Indata Varbasitu laval	1	-
	Log				Live	ipdate verbosity level	1 2 3	
٢							4	Target information
							<b>P</b>	Device
								Device ID
Ø								Revision ID .
								riash size
?							100% 🗙	CPU Bootloader Version
?				la et e C			100% 🗙	Flash size CPU Bootloader Version
?	Memory & File	e editing pl	ease se	lect a fi	le NFC		100% 🗙	CPU Bootloader Version
⑦	Memory & File	e editing pl	ease se eader 3	l <mark>ect a f</mark> i 911 v1 <sup>-</sup>	le NFC firmwar	e.hex	100% (×)	CPU Bootloader Version Connected
(?) () () () () () () () () () () () () ()	Memory & File	e editing pl + Re	ease se eader 3	lect a fi 911 v1 · Data width 32	le NFC firmwar	e.hex	100% (×)	USB USB USB USB
	Memory & Fill Device memory Address 0x0800	e editing pl	ease se eader 3	lect a fi 911 v1 · Data width 32	le NFC firmwar	re.hex	100% (×)	CPU Bootloader Version COnnected USB Configuration Port USB Configuration
	Memory & File Device memory Address 0x0800 Address 0x0800000	e editing pl + Re 0000 • Size 0 20004A68	ease se eader 3	lect a fi 911 v1 · Data width 32 8 08003841	le NFC firmwar 2-bit • Find I c 080032D5	Oata     Ox       hJ	Read •	CPU Bootloader Version COnnected USB Connected USB configuration Port USB 1 205435A542
© 	Memory & File Device memory Address 0x0800 Address 0x08000000 0x08000010	e editing pl + Re 0000 • Size 0 20004A68 0800383D	ease se eader 3 0x400 4 0800019D 080007FD	lect a fi 911 v1 Data width 32 8 08003841 08006487	Ie NFC           firmwar           2-bit         Find I           c         080032D5           00000000	Sethex           Data         0x           h3	Read •	Plash size CPU Bootloader Version Connected USB Configuration Port USB configuration Port USB 1 205435A542 PID 0xdf11
	Memory & File Device memory Address 0x0800 Address 0x08000000 0x08000010 0x08000010	e editing pl + Re 0000 • Size 0 20004A68 0800383D 00000000	ease se eader 3 0x400 4 0800019D 080007FD 00000000	lect a fi 911 v1 Data width 32 8 08003841 08006487 0000000	Ie NFC firmwar 2-bit Find I 080032D5 0000000 080040A5	Sethex           Data         0x           h34802         =8ýd	Read	Plash size CPU Bootloader Version Connected USB Configuration Port USB configuration Port USB 1 205435A542 PID Oxdf11 VID Ox0483
	Memory & File Device memory Address 0x0800 Address 0x0800000 0x08000010 0x08000010 0x08000020 0x08000030	e editing pl + Re 0000 + Size 0 20004A68 0800383D 0000000 0800825	ease se eader 3 0x400 4 0800019D 080007FD 0000000 0000000	lect a fi 911 v1 Data width 32 8 08003841 08006487 0000000 08003828	Ie NFC firmwar 2-bit Find I 080032D5 0000000 080040A5 080040D1	Sethex         Data       0x         h3A802         =8ýd         x	Read	Plash size CPU Bootloader Version Connected USB Configuration Port USB configuration Port USB 1 20435A542 PID Oxdf11 VID Ox0483 Read Liperstert (MCL)
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	Memory & File	e editing						Conne	cted
	Device memory	NFC Reader 3911 v	/1 firmware.hex >	+				USB 🔻 Disco	nnect
<b>*</b>	Address 0x8000	X Download 🔻	USB configuration	<b>•</b> 0					
OB	Address	0	4	Cite de					
	0x08000000	20004A68	0800019D		ownload complete		^	Serial number 205	5435A54233
CPU	0x08000010	0800383D	080007FD					PID 0xdf11	
swv	0x08000020	00000000	00000000			确定		VID 0y0483	
	0x08000030	08000825	00000000	08003B2B	080040D1	%+;Ñ@		0,0485	
	0x08000040	080001B7	080001B7	080001B7	080001B7			Read Unprotect (MCU)	
	0x08000050	080001B7	080001B7	08000827	080001B7	· · · · · · · · · · · · · · · · · · ·		TZEN Regression (MCU)	
	0x08000060	080001B7	080001B7	080001B7	080001B7				
	0x08000070	080001B7	080001B7	080001B7	080001B7	**************			
	0x08000080	080001B7	080001B7	080001B7	080001B7	· · · · · · · · · · · · · · · · · · ·			
	0x0800090	080001B7	080001B7	080001B7	080001B7	**************			
	Log				Live U	Jpdate Verbosity level	1 2 3		
	20:27:14 : erasing sec	tor 0034 @: 0x080110	00 done					Target information	
	20:27:15 : erasing sec	tor 0036 @: 0x080120	00 done					Board Device STM32L4x1/STM32L42	 75vv/STM
	20:27:15 : Download i	n Progress:		-				Туре	MCU
$\bigcirc$	20:27:16 : Time elapse	ed during download o	peration: 00:00:01.	391				Device ID Revision ID	0x415
0							~	Flash size 1 M	B - Default
?							100%	Bootloader Version	Cortex-M4

### 6. Package information

- 1 x NFC Reader 3911 development board.
- 1 x Micro USB with a length of 1m.

## 7. Support

Please send an email to dove.huang@aliyun.com.