WifiNFC User Guide

(Beta version)

PC GUIDE

Step 1

Start up the WifiNFC device. It would create a wifi network automatically. By default the wifi SSID is **HL-LINK_xxx**. The default password is **12345678**

Currently connected to:	÷3	^
Internet access		
Dial-up and VPN	^	
Broadband Connection		Ε
无线网络连接	^	
	Connected	
HI-LINK_FD57	lte.	-
	100.	
	lie.	
	100	
VARABAL		Ŧ
Open Network and Sharing Center		

Visit the page: http://192.168.16.254/ser2net.asp

- Username: admin
- Password: admin

Step 2

Client Mode:



The WifiNFC reader works as a wireless device joining your wifi network. Any wireless device such as PC or phone could visit it.



Configure it as shown above. Instead of typing SSID, you could also click **Scan** to search your SSID.

	Current	Updated	
Serial Configure:	115200,8,n,1	9600, 8, n, 1 ×	Set BAUD to
Serial Framing Lenth:	64	64]
Serial Framing Timeout:	10 milliseconds	10 milliseconds (< 256, 0 for no timeout)	
Network Mode:	server	Server 🗸	
Remote Server Domain/IP:	192.168.11.245	192, 168, 11, 245	
Locale/Remote Port Number:	8080	8080	
Network Protocol:	tcp	TCP 🗸	
Network Timeout:	0 seconds	0 seconds (< 256, 0 for no timeout)	
Then, d	ick Apply	Apply Cancel	-

After click Apply, the NFC reader would restart and act as a client in your wifi network. Down load TCP Test Tool (<u>Official source</u> or other source) and install it.

Step 3

TCP Test Tool 3.0	
File Edit Clear Help	
Client Port Port I2345 Connect	Server
Elaps Time Connection Status O0:00:00 Reset Idle	Set Listening Port 12345 <u>Bind</u>
Edit/Send Data	Edit/Send Data
Enter data to send	Enter data to send
	v
ASCII Hex Line Feed Carriage Return Auto Send Send every 1 sec. Clear Send	ASCII Hex Line Feed Carriage Return Auto Send Send every 1 sec. Clear Send
- Edit/Data Log	Edit/Data Log
Display data a@ ASCII Binary Decimal Hex	Display data a@ ASCII Binary Decimal Hex
- HEX Data Log	HEX Data Log
Display Sound Time Date Clear Log	Display Sound Time Date Clear Log
Bytes Sent: 0 Bytes Received: 0 2015/12/16	11:13:34 Bytes Sent: Bytes Received:

Here we need to enter the NFC reader's IP and port number. Port number is **8080** as we set in previous step. If you chose **Static** ip on the first step, enter the ip address as you set.

If you chose **DHCP** on the first step, we need to find the ip address. Download RM04-Discover tool. Run it. Click Discover and you could easily get the ip.

2	HLK-RM04_Discover By Shenzhen Hi-Link ElectronicTechnology co.,Ltd				
	NUM	IP	MAC	INFO	Discover
	1	192.168.1.12	44:33:4C:BA:FD:56	HLK-RM04(V1.78(Jul 23 2013))	

IP is 192.168.1.12 Back to TCP Test Tool:

TCP Test Tool 3.0	
File Edit Clear Help	
- Client IP Address/Name Port 192.168.1.12 8080 <u>C</u> onnect	Server
Elaps Time Connection Status 00:02:23 Reset Idle	Set Listening Port
Edit/Send Data	Edit/Send Data
A	Enter data to send
~	-
ASCII Hex Line Feed Carriage Return Auto Send Send every 1 sec. Clear Send	ASCII Hex Line Feed Carriage Return Auto Send Send every 1 sec. Clear Send
Edit/Data Log	Edit/Data Log
Display data a ASCII 🔘 Binary 🔘 Decimal 🔘 Hex	Display data al ASCII 🔘 Binary 🔘 Decimal 🔘 Hex
HEX Data Log	HEX Data Log
Display Sound Clear Log	Display Sound Clear Log
Bytes Sent: 0 Bytes Received: 449 2015/12/16	18:28:37 Bytes Sent: Bytes Received:

Once it is connected, you could put a tag above the reader:

TCP Test Tool 3.0	
File Edit Clear Help	
Client	Server
IP Address/Name Port	Current Connections 0/250 Listening on
<u><u>192. 168. 1. 14</u> <u><u>D</u>isconnect</u></u>	192. 168. 1. 6/12345
Elaps Time Connection Status	Set Listening Port —
00:00:31 Reset Connected	12345 <u>B</u> ind
_ Edit/Send Data	Edit/Send Data
	Enter data to send
-	-
🔿 ASCII 💿 Hex 📃 Line Feed 📃 Carriage Return	◎ ASCII ◯ Hex □ Line Feed □ Carriage Return
Auto Send	Auto Send
Send every 1 sec. Clear Send	Send every 1 sec. Clear Send
_ Edit/Data Log	Edit/Data Log
F2 CE DD 1D	A
Display data a ASCII O Binary O Decimal O Hex	Display data al ASCII 🔘 Binary 🔘 Decimal 🔘 Hex
HEX Data Log	HEX Data Log
<- {192.168.1.14/8080} F2 CE DD 1D	
Display Sound	Display Sound
Time Date Enabled Clear Log	Time Date Enabled Clear Log
Bytes Sent: 0 Bytes Received: 4 2015/12/24	10:40:59 Bytes Sent: Bytes Received:

Write Data

To write block 2 with data 00 ff 00 ff

🔛 TCP Test Tool 3.0	
File Edit Clear Help	
Client Port IP Address/Name Port 192.168.1.14 8080	Server
Elaps Time Connection Status O0:06:25 Reset Connected	Set Listening Port 12345 <u>B</u> ind
Edit/Send Data	Edit/Send Data
ab 1a 04 02 00 ff ff ff ff ff ff 00 ff 00 ff	Enter data to send
	-
🔿 ASCII 💿 Hex 📃 Line Feed 📃 Carriage Return	◎ ASCII ─ Hex □ Line Feed □ Carriage Return Auto Send ───
Send every 1 sec. Clear Send	Send every 1 sec. Clear Send
Edit/Data Log	Edit/Data Log
AB 02 04	
Display data a ASCII 🔘 Binary 🔿 Decimal 💿 Hex	Display data a ASCII 🔘 Binary 🔘 Decimal 🔘 Hex
HEX Data Log	HEX Data Log
-> {192.168.1.14} AB 1A 04 02 00 FF	
Display Sound Clear Log	Display Sound Time Date Enabled Clear Log
Bytes Sent: 27 Bytes Received: 11 2015/12/24	10:46:53 Bytes Sent: Bytes Received:

Read the tag on your phone:

Download the TCP/UDP Terminal (for Android, w/ AD)

Phone GUIDE



Step 1 Click the Search button

Step 2

Input the IP and Port number of WifiNFC Click back button.





Step 3

Click Connect button. Once connected, this button will disappear.



Step 4

Click the **ASCII** button to change it to **HEX** Put a tag on the WifiNFC reader. You could get the ID.

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TCP/UDP Terminal 192.168.1.14:8080 /TCP.



0000: f2 ce dd 1d

0000: f2 ce dd 1d <Send> 0000: ab 1a 04 02 00 ff ff ff 0008: ff ff ff 00 11 22 33 44 0010: 55 66 77 88 99 aa bb cc 0018: dd ee ff

0000: ab 02 04

HEX AB1A040200FFFFFF FFFFF00112233445 566778899AABBCCD DEEFF

Step 5

Write block 02 with data 00 11 22 33 44 55 66 77 88 99 aa bb cc dd ee ff Send command: AB1A040200FFFFFFFFFFF001122 33445566778899AABBCCDDEEFF

Note: this APP doesn't accept space or lower case "a" instead of "A"