

WIFITD-1



USER MANUAL

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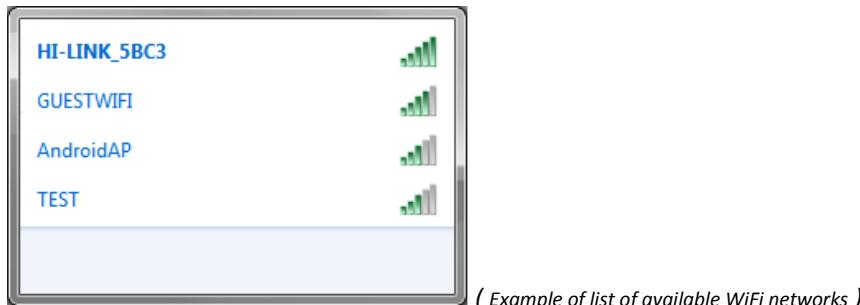
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1. Connection to the board

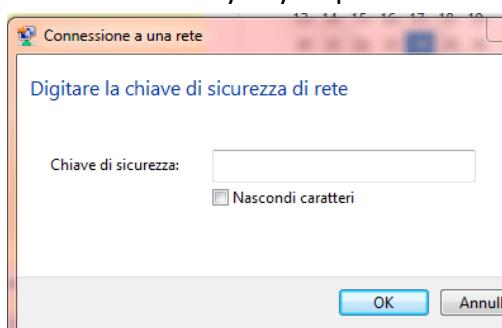
There are 2 different way to connect to the board to configure it.

1.1 Through WiFi

Choose HI-LINK_5BC3 available in the WIFI list of the PC.



Insert the security key requested: 12345678 and press OK



1.2 Through Ethernet cable

Connect on the ETHD-1 through a direct Ethernet cable on the RJ45 port called LAN.



LAN port on the ETHD-1 board.

On the other side, connect on the RJ45 port (Ethernet) of the PC



Example on the Notebook



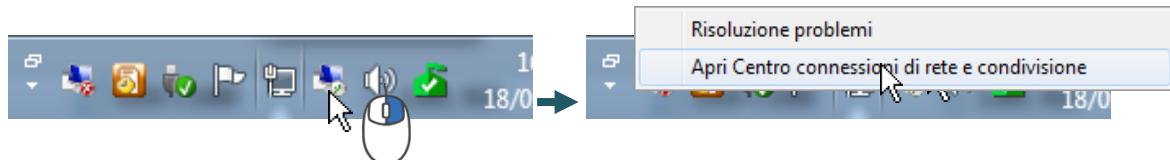
Example on the Pc desktop

1.2.1 Modify the Ethernet board of the PC

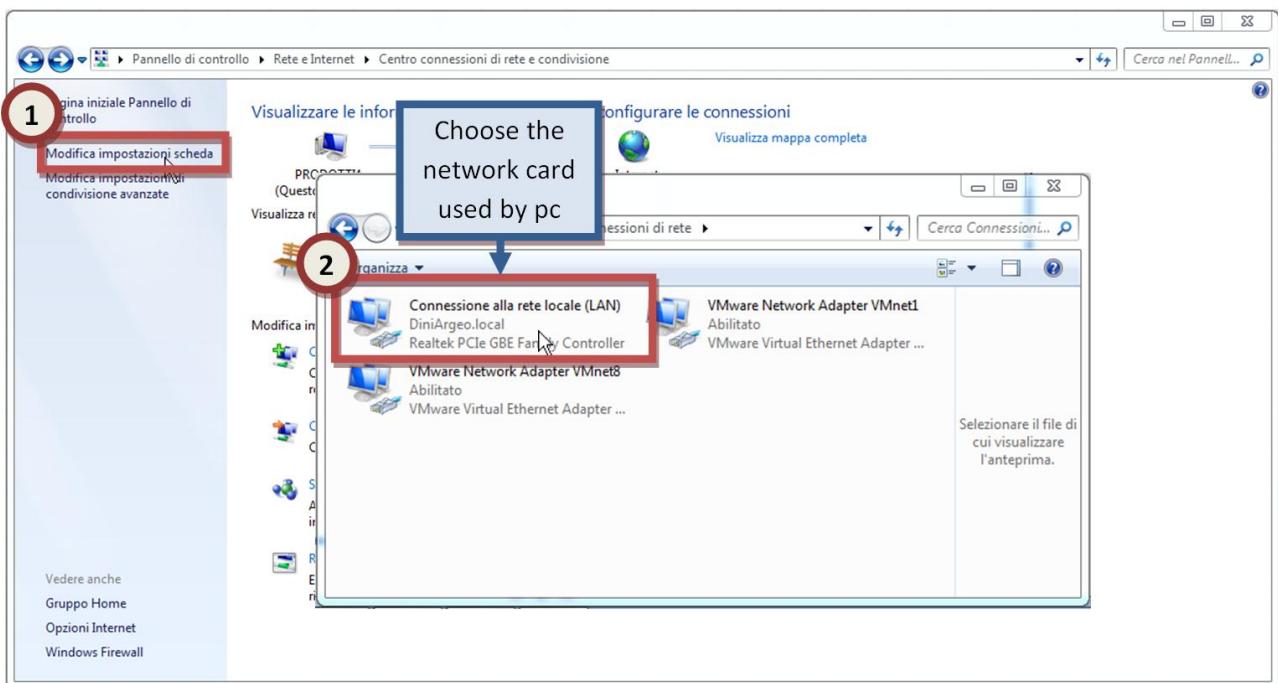
To access to the configuration page through the cable, is necessary to make a temporally modification on the LAN board of the PC.

To modify the property of the LAN board is necessary:

- Go to Network connection center with right click on 

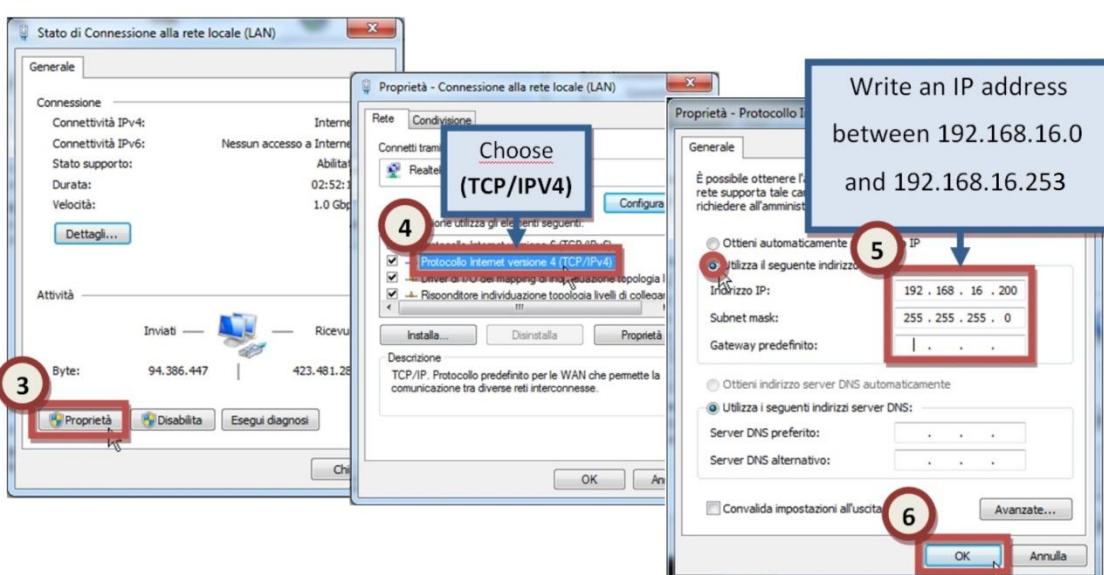


- Identify the LAN board where you are connected.



In this example the board used is the "Connection to the local network (LAN)"

- Right click on the name of the LAN board.
- Go on  **Property**.
- Select  Internet Protocol version 4(TCP/IPv4).
- Insert a **IP address** between 192.168.16.1 and 192.168.16.253
- The **Subnet mask** commonly used is 255.255.255.0 and the **Gateway** is empty.



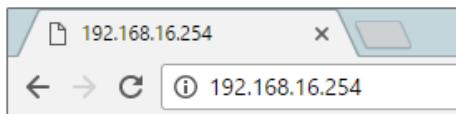
2. Access to the configuration page

To access to the configuration page, open the browser web. (*Internet Explore / Chrome*)

2.1 Default IP address and login credentials

The default IP address is : **192.168.16.254**.

Insert the IP address in the URL of the browser and press the ENTER button on the keyboard.



Put the login credentials in the pop up that appears after ENTER.

Accedi
http://192.168.16.254
La connessione a questo sito non è

Nome utente

Password

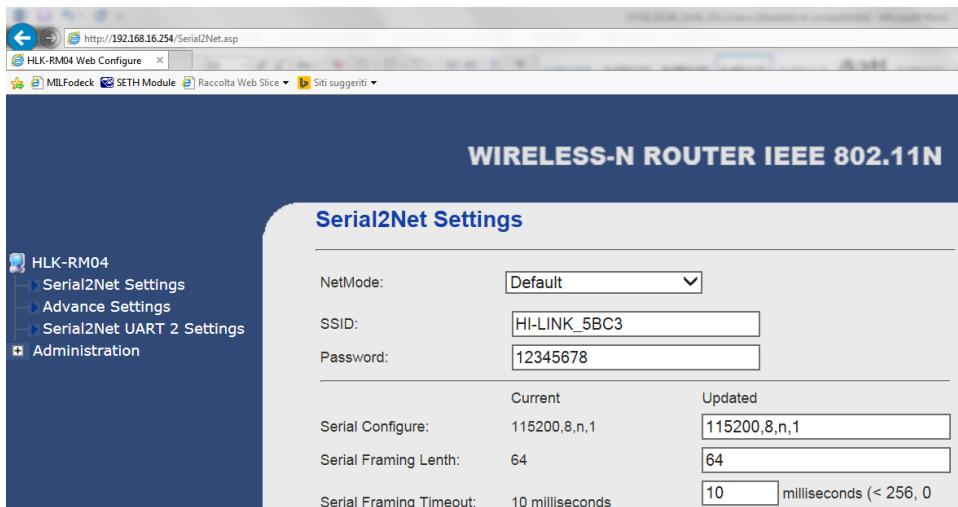
Accedi **Annulla**

(example from Chrome)

Press on LOG IN to confirm and access into the page.

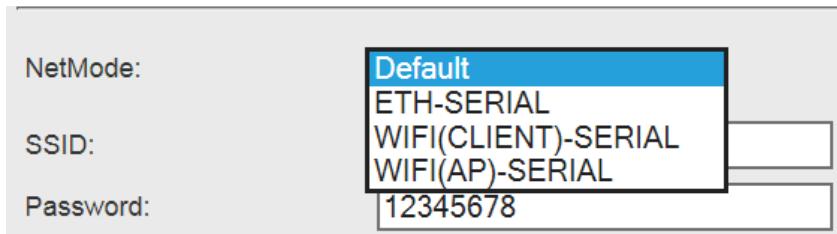
3. Main configuration

The Home page of the board is the follow:



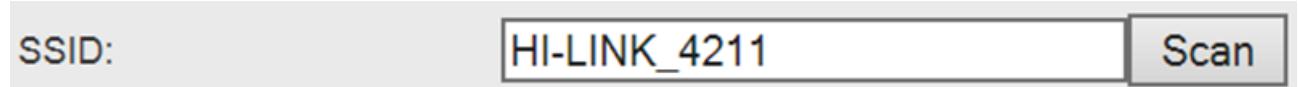
3.1 Mode of operation

Selection the mode of operation WIFI (CLIENT)-SERIAL between the list.



3.1.2 SSID and Password

Insert near to SSID the router's name where you want connect.



Or click on SCAN to select the WIFI network between available in the range of action an after click on APPLY to confirm. Automatically the SSID box will be compiled.

Ch	SSID	BSSID	Security	Signal(%)	W-Mode	ExtCh	NT
<input type="radio"/>	1	DINI_LAN	00:1a:8c:c2:73:a2	WPA2PSK/AES	39	11b/g/n	NONE
<input type="radio"/>	1	GUEST_WIFI	00:1a:8c:c2:73:a3	WPA1PSK/WPA2PSK/AES	34	11b/g/n	NONE

(**ATTENTION** : The name must match in the same mode is displayed in the list of the WIFI network of the PC)

3.2 IP address

The board has 2 mode to set the IP address "IP Type":

- Dynamic IP address (DHCP)
- Static IP address (STATIC)

3.2.1 Dynamic IP

For dynamic (DHCP) means that will be the network assigns the address to the board depending on what will be free at that precise moment.

To set this mode choose DHCP between the options near to "IP Type"

The screenshot shows the Hi-Link HLK-RM04 Web Configure interface. On the left, there's a sidebar with language options (English, 简体中文) and a navigation tree: HLK-RM04 > Serial2Net Settings. The main content area is titled "HLK-RM04 Serial2Net Settings". It contains fields for NetMode (WIFI(CLIENT)-SERIAL), SSID (HI-LINK_68EB), Encrypt Type (WPA2 AES), Password (12345678), and IP Type (a dropdown menu with options: STATIC, DHCP, and another option partially visible). The "DHCP" option is highlighted with a blue background. At the bottom right of the form, there are "Current" and "Updated" buttons.

3.2.2 Static IP

For fixed (STATIC) means that you will have to assign a specific IP address at this board and that is always free in the network; that is not used by the DHCP service.

Choosing to use STATIC IP, will need to set some parameters like:

- IP address
- Subnet Mask
- Default Gateway
- Primary DNS Server (optional)
- Secondary DNS Server (optional)

This screenshot shows the same interface as the previous one, but with different settings. The IP Type dropdown is now set to "STATIC". The form also includes static IP configuration fields: IP Address (192.168.16.241), Subnet Mask (255.255.255.0), and Default Gateway (192.168.16.254). The rest of the fields (NetMode, SSID, Encrypt Type, Password) remain the same as in the first screenshot.

To confirm the modification, click on APPLY in the bottom of the page.

3.3 Serial configuration

Set serial parameters like the indicator connected

	Current	Updated
Serial Configure:	115200,8,n,1	9600,8,n,1
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)

[Apply](#) [Cancel](#)

3.4 Protocol and port number

It is possible select between 2 type of protocol of communication :

- TCP
- UDP

Moreover, insert the access port number.

Serial Configure:	115200,8,n,1	9600,8,n,1
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)

[Apply](#) [Cancel](#)

3.5 Password

The screenshot shows the 'System Management' page of the Hi-Link WIRELESS-N ROUTER IEEE 802.11N. The left sidebar lists various configuration options under 'Administration' (Management, Settings Management, Upload Firmware, Status, Station List, Link Status). The main content area has a heading 'System Management' with the sub-instruction 'You may configure administrator account and password here.' Below this are three sections: 'Language Settings' (Select Language dropdown set to English, with Apply and Cancel buttons), 'Administrator Settings' (Table with Account set to admin and Password set to ****, with Apply and Cancel buttons), and 'System Reboot' (System Reboot Button with Reboot button). A red box highlights the 'Administrator Settings' table.

HLK-RM04 Web Configure

Non sicuro | 192.168.16.254/Serial2Net.asp

Hi-Link™ WIRELESS-N ROUTER IEEE 802.11N

English 简体中文

HLK-RM04

- Serial2Net Settings
- Advance Settings
- Serial2Net UART 2 Settings
- Administration**
 - Management
 - Settings Management**
 - Upload Firmware
 - Status
 - Station List
 - Link Status

System Management

You may configure administrator account and password here.

Language Settings

Select Language	English
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Apply Cancel

Administrator Settings

Account	admin
Password	****

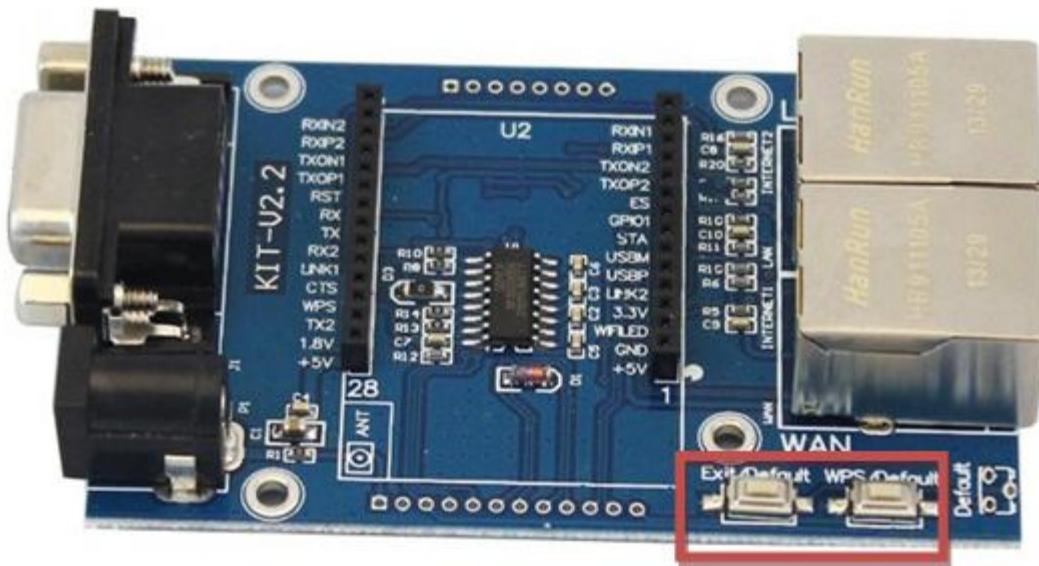
Apply Cancel

System Reboot

System Reboot Button	Reboot
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4. Factory reset

It is possible to make the default of the board.



- Press the WPS/Default button for 6 secs.
- Release for a moment, then press and hold the button until you see the three green LEDs disappear.