



**HDL**<sup>®</sup>

Gateway

**HDL-MBUS01IP.431**

buspro  
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HDL-MBUS01IP.431 is the gateway between HDL Buspro system and Ethernet. It can realize the bidirectional data transmission between HDL Buspro and Ethernet.



## Setting of Network Parameter :

1-port IP interface has a default IP-192.168.10.250 and 6000 for port. Please change the user PC IP address into the same IP segment.

### Steps for change IP address :

1. Modify the IP address of the user PC into 192.168.10.\*\* (\*\* means any) .
2. Open the “HDL Buspro Set Up tool” , find the device, change the IP address into the same IP segment of the user PC. Finish and save.
3. Change the IP address of the user PC back to previous IP.
4. Power the device off, then the new IP address will be available after power on.

- ◆ Bidirectional data exchange between HDL Buspro and Ethernet.
- ◆ Supports local control, p2p control, remote control (local control by default)
- ◆ Allows maximum 4 devices to connect this module for remote control, such as iPad, iPhone, Touchlife, HDL Buspro software and so on.
- ◆ Intelligent data exchange , minimize data traffic.
- ◆ Communication: HDL Buspro, IP network.

1 port switchboard

Basic information | Connection

Select device

Device: 5-0-HDL-MBUS01IP.431 ()

Device configuration

Model: HDL-MBUS01IP.431

Subnet ID: 5      Device ID: 0

Device remark:

Remark: [ ]

MAC address

MAC: 00.97.15.46.83.76.BE.01

Network Parameter

IP: 192.168.110.104      Port: 6000

SubNet Mask: 255.255.255.0       DHCP(Auto IP)

Route IP: 192.168.110.1      Get IP Auto Fail

IP MAC: H   D   L   85   47   85      Save

Modify subnet ID and device ID according to MAC

Subnet ID: [ ]      Device ID: [ ]      Save

Picture upload

Upload...      Delete

Exit

**Subnet ID and Device ID**

**Change the default IP and IP MAC, to avoid possible conflict.  
Default IP:192.168.10.250  
Default MAC:H-D-L-85-85-85**

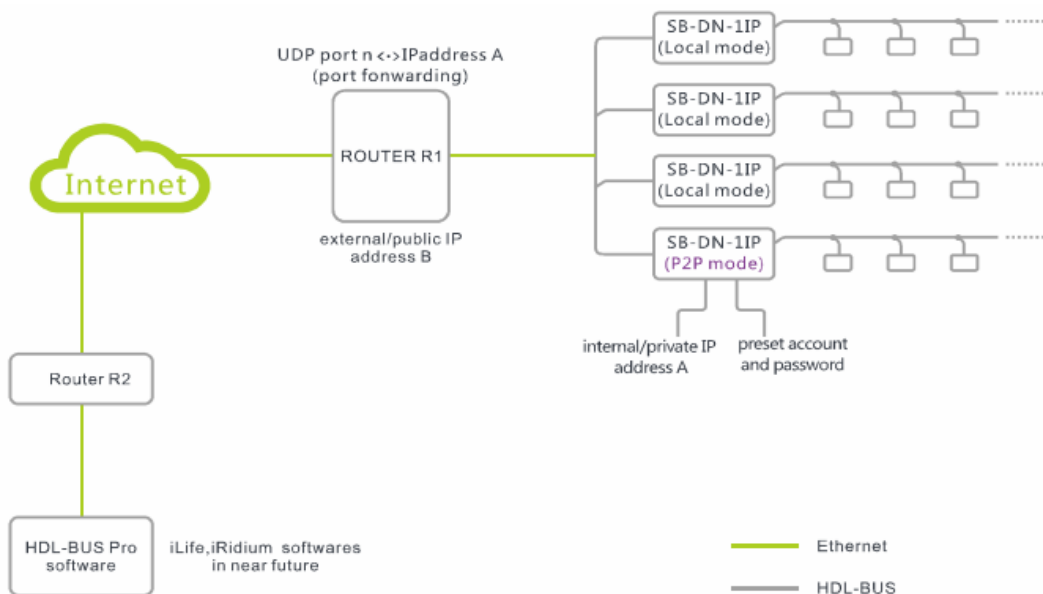
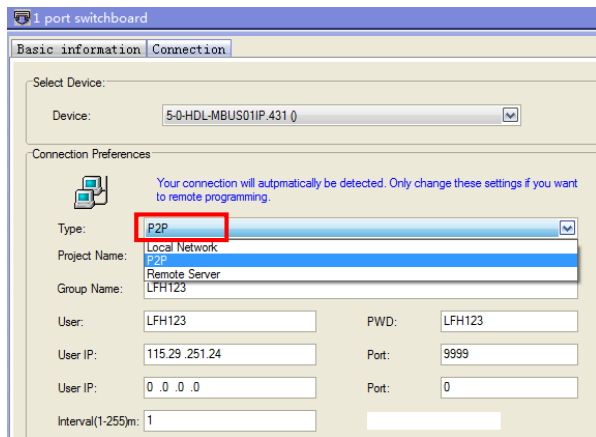
HDL-MBUS01IP.431 has 3 working types:

- ◆ Local Network
- ◆ P2P
- ◆ Remote Server

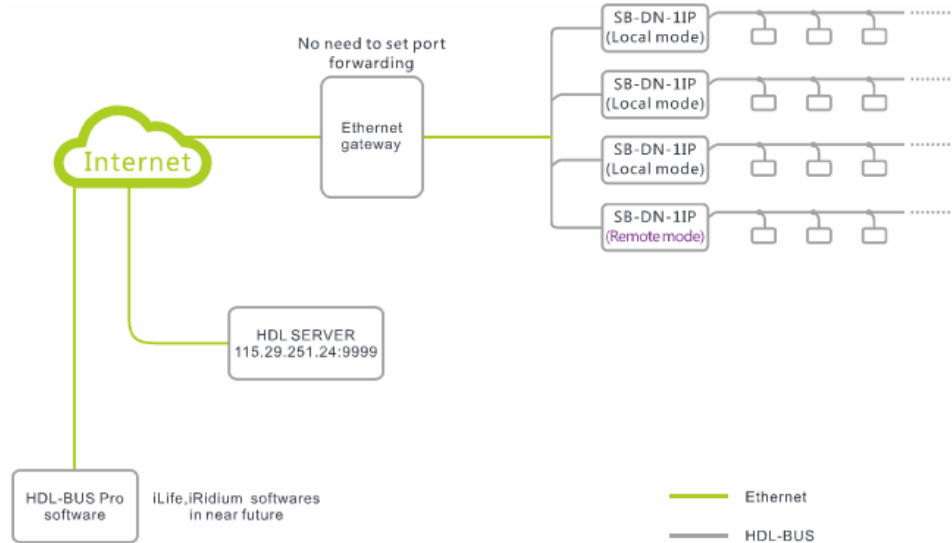
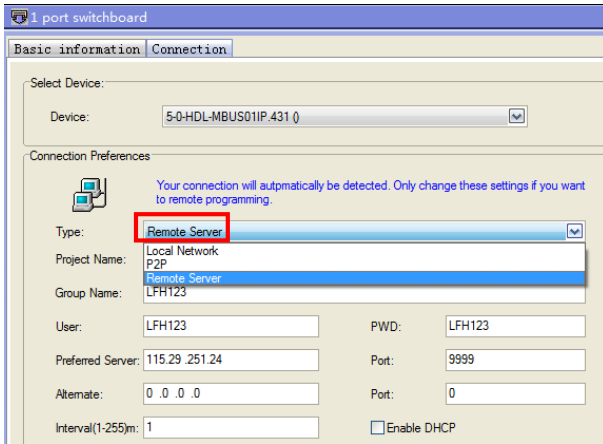
**Local Network:** Works as a normal HDL-MBUS01IP as it always be, a gateway between HDL Buspro and local Enternet. This mode doesn't have remote function.

The screenshot shows the configuration window for '1 port switchboard'. The 'Connection' tab is active. Under 'Select Device:', the device is set to '5-0-HDL-MBUS01IP.431 (0)'. In the 'Connection Preferences' section, the 'Type:' dropdown menu is open, with 'Local Network' selected and highlighted by a red box. Other options in the dropdown are 'Local network', 'P2P', and 'Remote Server'. Below this, there are input fields for 'Project Name' (P2P), 'Group Name' (LFH123), 'User' (LFH123), 'PWD' (LFH123), 'Preferred Server' (115.29.251.24), 'Port' (9999), 'Alternate' (0.0.0.0), and 'Port' (0). There is also an 'Interval(1-255)m:' field set to 1 and an 'Enable DHCP' checkbox. At the bottom of the preferences are 'Test Connection:' and 'Apply' buttons. Below the preferences is an 'Active Connections' table with columns for Index, IP, Port, Remain(s), and lbActive. The table is currently empty. A 'Refresh' button is located at the bottom right of the active connections section.

**P2P:** In this mode, you are able to access the HDL Buspro system directly through Internet, without any help from HDL server.



**Remote Server:** This mode is suitable for both travelling programmer and end user to configure and control HDL Buspro system via Internet. Since a server is getting involved in this mode, no static public IP is needed for HDL Buspro system because the HDL-MBUS01IP in Remote Server mode will keep updating itself to the server, programmer and end user can always get info of the remote HDL MBUS01IP from the server and later access the HDL Buspro system directly.





The screenshot shows the '1 port switchboard' window with the 'Connection' tab selected. The 'Select Device' dropdown is set to '5-0-HDL-MBUS01P.431 ()'. Under 'Connection Preferences', the 'Type' is 'Remote Server'. The 'Project Name' is 'LFH123' and the 'Group Name' is 'LFH123'. The 'User' is 'LFH123' and the 'PWD' is 'LFH123'. The 'Preferred Server' is '115.29.251.24', the 'Port' is '9999', and the 'Interval(1-255)m' is '1'. The 'Alternate' IP is '0.0.0.0' and the 'Port' is '0'. There is an unchecked checkbox for 'Enable DHCP'. At the bottom, there is a 'Test Connection' button and an 'Apply' button. Below the form is an 'Active Connections' table with columns for Index, IP, Port, Remain(s), and lbActive, and a 'Refresh' button.

Index	IP	Port	Remain(s)	lbActive
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**Step1:** Set your Project Name, Group Name, User, PWD and click Apply.

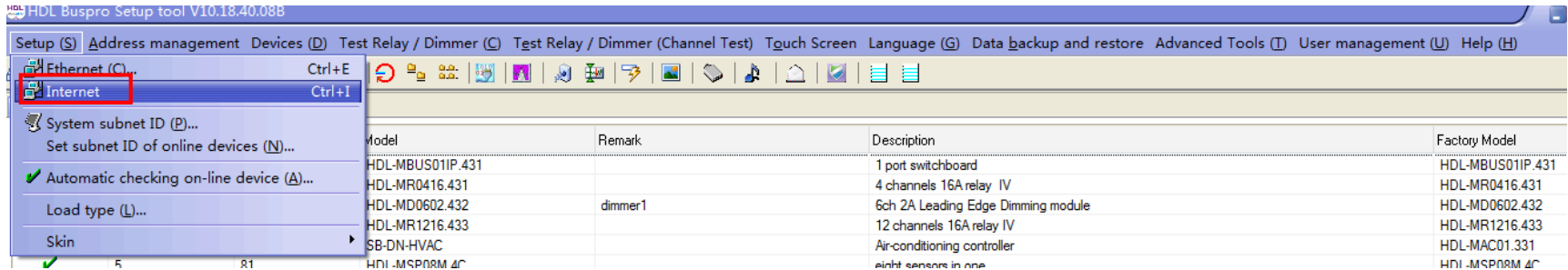
**NOTE:** HDL server has a fixed IP and port, 115.29.251.24:9999, do not change it, it is editable because HDL may change the server or help installation company to build their own servers in the future, in that case, the installation companies can fill in their own servers and ports.

The Interval value suggested to be 1-3m.

**Interval(1-255)m:** It is the parameter that decides how long the HDL-MBUS01IP will register its info to the HDL server again, e.g., if we set it as 5 minutes, that means every 5 minutes the HDL-MBUS01IP will register itself to the HDL server (so that HDL server knows where this HDL-MBUS01IP locates even if the public IP of the router is changed or private IP of the HDL-MBUS01IP is changed). But the recommended value is 1-3m.

### Step2:

Exit HDL Buspro Setup Tool and connect to another Internet access that has a different public IP for your PC/laptop, run the HDL Buspro Setup Tool again and select Internet.



Internet

Connection Preferences

Your connection will automatically be detected. Only change these settings if you want to remote programming.HDL Server 1: 115.29.251.24; HDL Server 2:59.41.254.6; Port 9999.

Type: Remote Server

1.Fill in the Server IP  
Server IP: 115.29.251.24

Group Name: HDL123 2.Fill in the Group Name 3.Click "search" button

ID	Project Name	user	IP	Port
1	HDL123	HDL123	59.41.255.150	6000

4. Select the searched project

Project Name: HDL123

User: HDL123 Password: \*\*\*\*\* 5.Fill in the Password

IP: 59.41.255.150 Port: 6000

6.Click "Apply"  
Apply Cancel

The other blanks are automatic generation except for "Password"

When you connect to your ip module, please follow your port forwarding in internet router, if your source port is 6000, please change the port to 6000, else use the port that got from server.

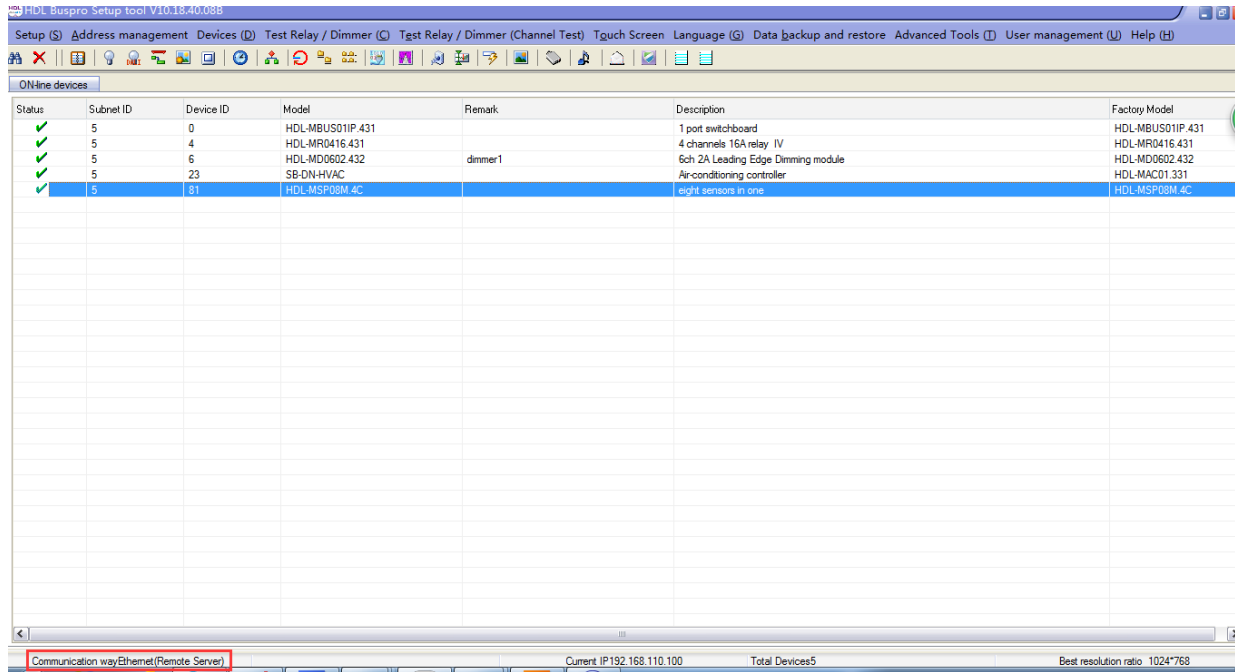
Trying to connect to the server.....1

### Step3:

Search for the project in the pop up window,as the left picture.

(An installation company can have many projects in different sites).

## Remote/Steps



The screenshot shows the HDL Buspro Setup tool interface. The title bar reads "HDL Buspro Setup tool V10.18.40.088". The menu bar includes: Setup (S), Address management, Devices (D), Test Relay / Dimmer (C), Test Relay / Dimmer (Channel Test), Tqouch Screen, Language (G), Data backup and restore, Advanced Tools (T), User management (U), and Help (H). The toolbar contains various icons for file operations and device management. The main window displays a table titled "ONline devices" with the following columns: Status, Subnet ID, Device ID, Model, Remark, Description, and Factory Model. The table contains five rows of data, with the last row highlighted in blue.

Status	Subnet ID	Device ID	Model	Remark	Description	Factory Model
✓	5	0	HDL-MBUS01IP.431		1 port switchboard	HDL-MBUS01IP.431
✓	5	4	HDL-MR0416.431		4 channels 16A relay IV	HDL-MR0416.431
✓	5	6	HDL-MD0602.432	dimmer1	6ch 2A Leading Edge Dimming module	HDL-MD0602.432
✓	5	23	SB-DN-HVAC		Air-conditioning controller	HDL-MAC01.331
✓	5	81	HDL-MSP08M.4C		eight sensors in one	HDL-MSP08M.4C

At the bottom of the window, the status bar shows: "Communication way: Ethernet (Remote Server)", "Current IP: 192.168.110.100", "Total Devices: 5", and "Best resolution ratio: 1024\*768".

### Step4:

After you clicking the Apply button, the pop up window will exit automatically if it communicates with remote HDL Buspro system successfully, now you can get start to program the HDL Buspro system.



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