



# **Thin Client Micro 5 Pro**

User Manual



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# About This Manual

This manual provides information about the hardware and software features of your Micro 5 Pro , organised through the following chapters.

## **Chapter 1: Getting to know your Micro 5 Pro**

This chapter gives details about the hardware components of your Micro 5 Pro.

## **Chapter 2: Using your Micro 5 Pro**

This chapter provides you with information on using your Micro 5 Pro .

## **Appendix**

The section includes safety information, Operating Guidelines, Warranty and Services and Frequently Asked Questions for your Mini PC



# Package Contents

Your Micro 5 Pro package contains the following items:

- Micro 5 Pro



- Power Adapter



## NOTE:-

If the device or its components fail or malfunction during normal and proper use within the warranty period, bring the warranty card to the Thinvent Technologies Pvt. Ltd. Service Center for replacement of the defective components.




# Chapter 1

## Getting to know your Micro 5 Pro

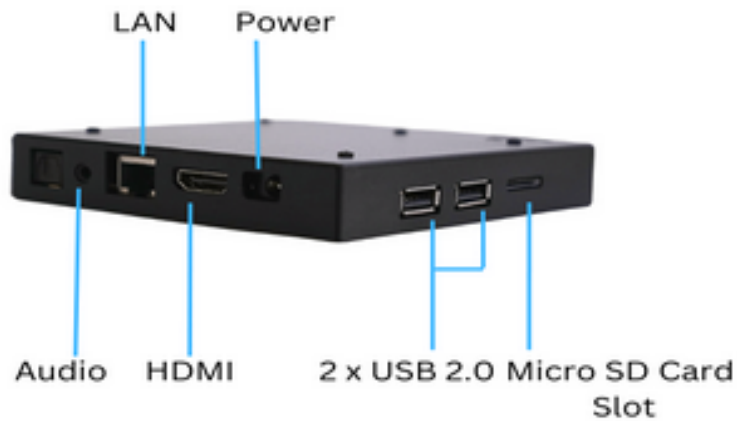
- Front Panel Components





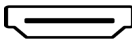



	Power On lights	This are power lights in which you can see blue light glow which means device is ON and red light indicates it is OFF.
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- Rear Panel Components



	Power (Power IN)	The supplied power adaptor converts AC power in DC power to use with this jack. Power supplied through this jack supplies power to the Micro 5 Pro . To prevent damage to the Micro 5 Pro, always use the supplied power adaptor.
	Lan	The 8-pin RJ-45 LAN port supports a standard Ethernet cable for connection to a local network
	Aux	3.5 mm Audio Jack also known as TRS(Tip-Ring-Sleeve) Connector. It is commonly used for connecting external speakers and headphones to various devices.
	Micro SD	A micro secure Digital slot (Micro SD slot) is a small expansion slot. It facilitates the increase of available memory via the insertion of a MicroSD Card.
	HDMI	The HDMI (High Definition Multimedia Interface) port supports a Full HD device such as an LCD TV or monitor to allow viewing on a larger external display.
	USB 2.0	The USB 2.0 (Universal Serial Bus) port provides a rate up to 480mb/s.



# Chapter 2

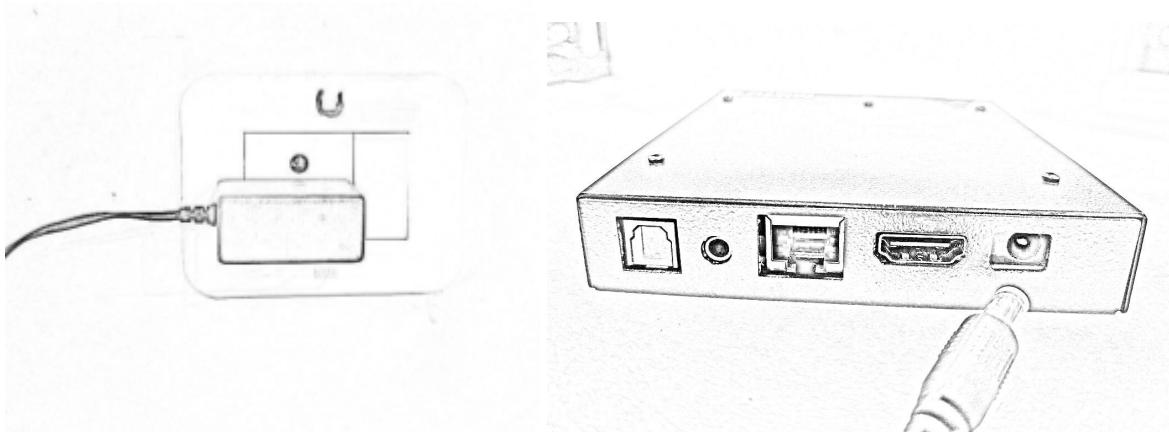
## Using your Thin Client

### Getting Started

#### Connect the DC power adapter to your Device

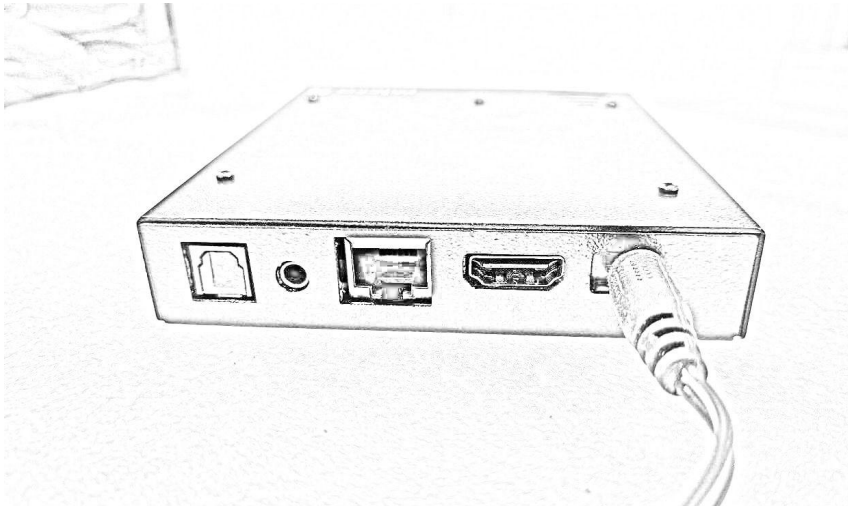
To connect the DC power adapter to your Micro 5 Pro:

- A. Connect the power adapter into your Micro 5 pro Thinclient's power (DC) Input.



- B. Plug the power adapter's 2 Pin socket into a 110V~240V AC power source.





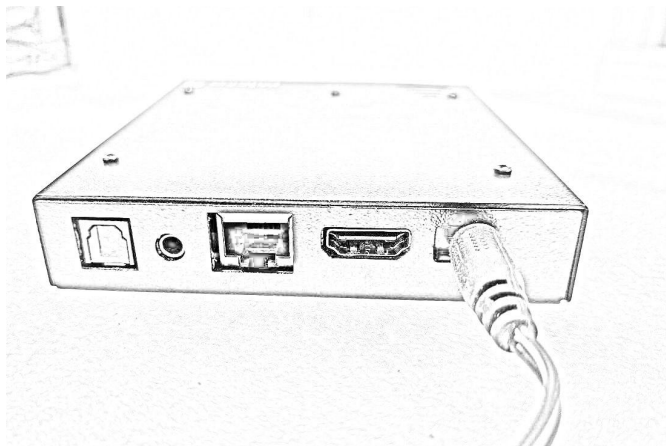
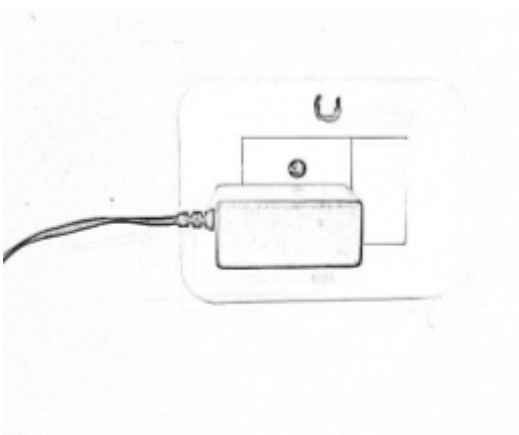
**NOTE:-**

Please refer to the following for more information on the adapter:

- Power input: 110- 240V AC
- Input frequency: 50-60 Hz
- Consumption: 10 W maximum

## Turn on your Micro 5 Pro

It is a plug and play device so just insert your adaptor which comes with the device and connect it.



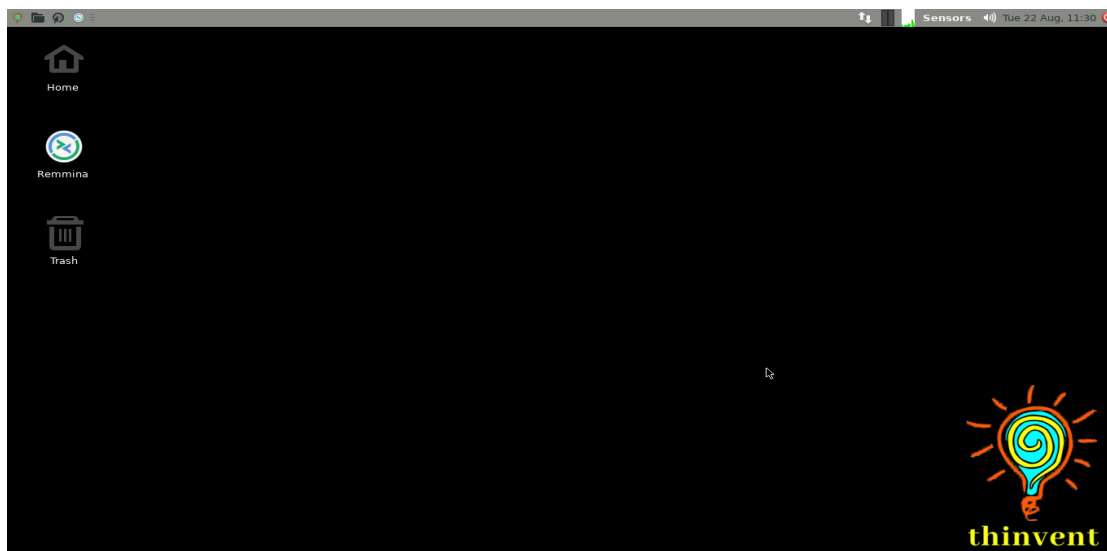


## Installation




**Step 1:** Unpack the machine and connect the HDMI, Power Adapter, keyboard, and Mouse in proper order.

**Step 2:** Check the connection thoroughly and switch on the electric board button and connect devices.

**Step 3:** When you first turn on the Micro 5 Pro , you are greeted with the default desktop of the thin client. The desktop has the icons *Home*, *Remmina*, and *Trash*.



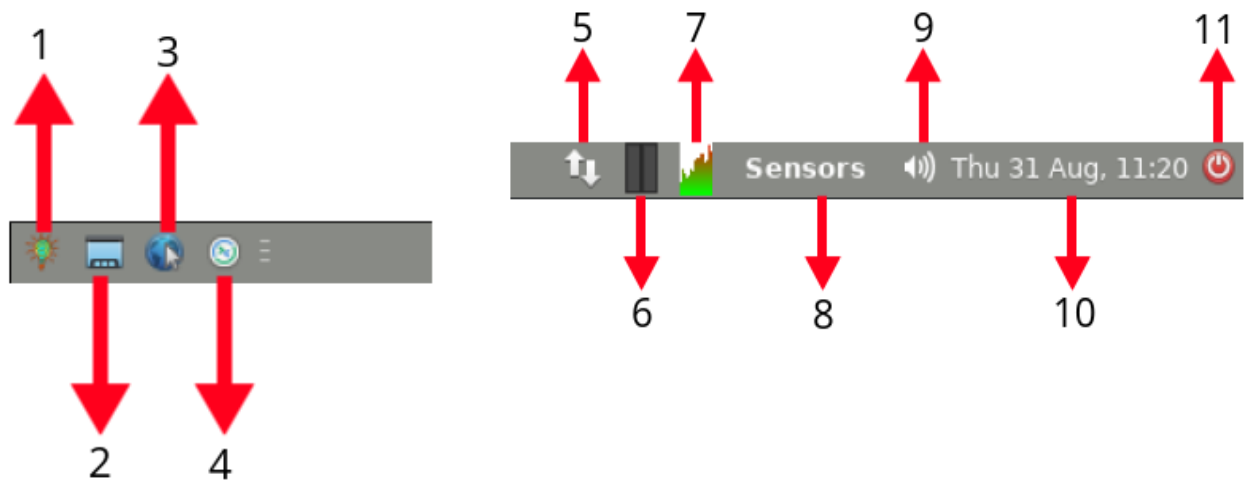
## Desktop Icon

	Clicking on the <b>Home</b> directory
	Clicking on the <b>Remmina</b> will open the Remmina GUI window where you can make your RDP connections.
	Clicking on the <b>Trash</b> icon will open the recycle bin.

## Using the taskbar

The Taskbar of the thin client is at the top of the screen. It allows you to locate and launch programs through Start and the Start menu, or view any program that is currently open. It also allows you to check the **date and time**.

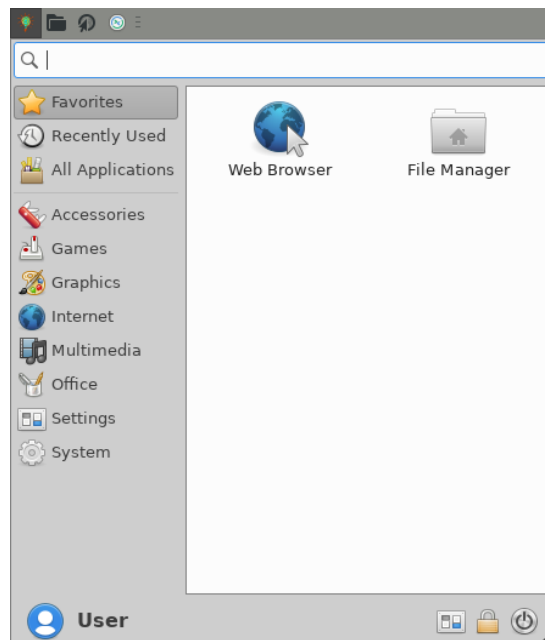




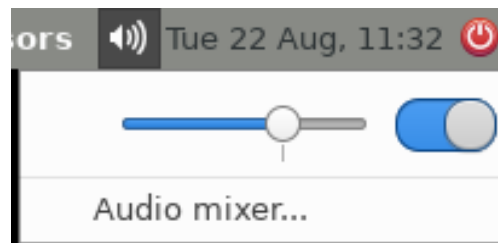
<b>1</b>	Opens the thin client start menu.
<b>2</b>	Minimise all open windows and show the desktop
<b>3</b>	Opens the Mozilla Firefox web browser.
<b>4</b>	Open the Remmina GUI Window.
<b>5</b>	Opens the Network Manager Option.
<b>6</b>	Displays Network usage.
<b>7</b>	Displays the CPU usage.
<b>8</b>	Displays the thin client sensors.
<b>9</b>	Open the sound panel.
<b>10</b>	Date and time.
<b>11</b>	Shut down option.

Clicking on 1 will open the start menu. Once you click on this, you can navigate through the applications which are provided by the thin client.

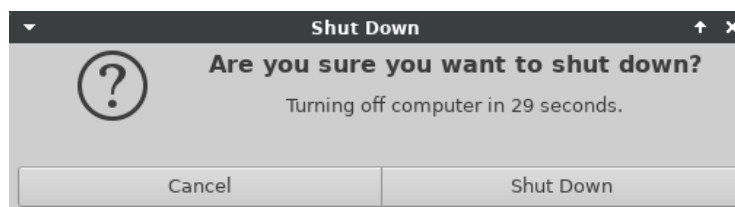




Click on 9 to open the volume panel. From there you can increase or decrease volume.



Clicking on the 11th icon will give you the option to shut down the system.



## Network Settings

You can access the network configuration window by two methods.

### Method 1:

Start menu > All applications > Advanced Network Configuration

### Method 2:

By clicking on the 5th icon of the taskbar.



## 1. Ethernet

By default, the thin client network settings are on the DHCP settings. However, if you want to change it to the static configuration, you can do it.

The network settings window will come up once you open the network settings from one of the two methods defined above.

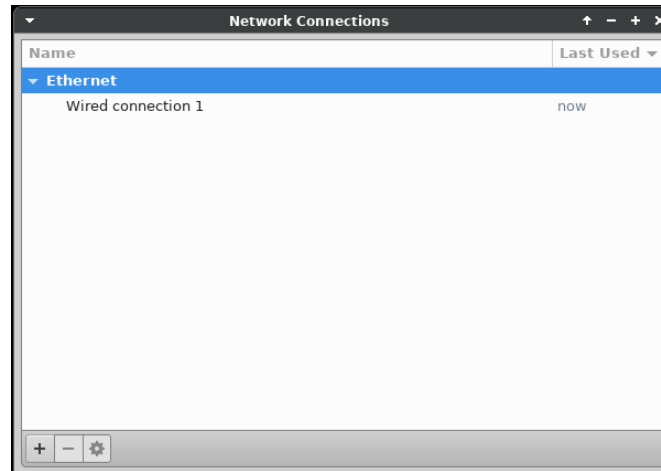


fig: 2.1

- Click on the **settings** icon as shown in figure 2.1. It will open the editing window.
- Click on the **IP4 Settings** tab. Select the connection type from the list, whether you want to select the **DHCP or Manual** settings.
- Once the **Manual** method is selected, you need to click on **Add**. Now you can enter the desired IP address which you want to assign to your thin client. (Figure 2.2 and 2.3)



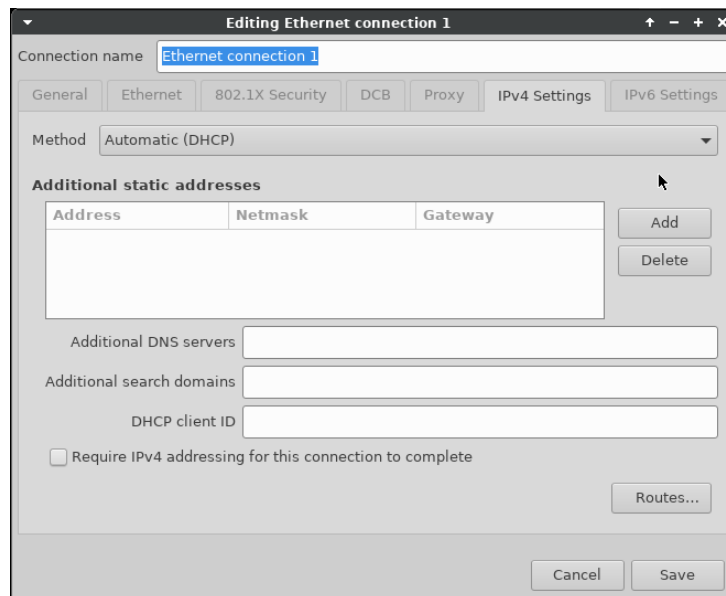


Fig: 2.2

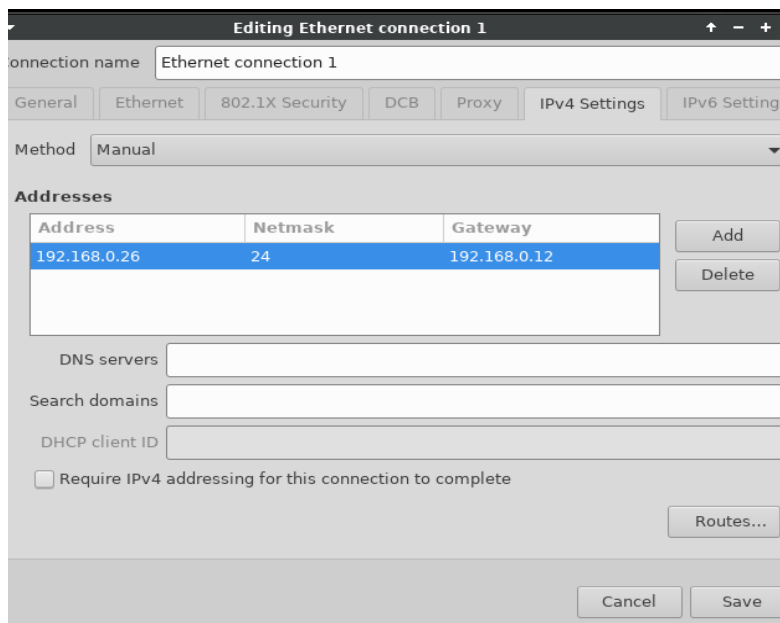


Fig: 2.3

- Once you have entered the IP address, click on **Save** and close the network setting Window.
- To activate your settings, click on the network icon on the top right of the taskbar.
- Then, you need to click on the **disconnect** option and again click on the **Wired connection** option. This will activate the new IP settings which you have entered into your system.





## 2. WiFi

- Click on the Network Icon which is in the task bar. The moment you click on it
- you will see the available WIFI networks. Just click on the one of the WIFI networks you want to get connected with, enter the WIFI password and you are on the WiFi network



## Configuring Printer through the Web Browser

- Open the Web browser and type localhost:631 in the address bar and press enter.





## CUPS 2.3.1

CUPS is the standards-based, open source printing system developed by [Apple Inc.](#) for macOS® and other UNIX®-like operating systems.

### CUPS for Users

[Overview of CUPS](#)  
[Command-Line Printing and Options](#)  
[User Forum](#)

### CUPS for Administrators

[Adding Printers and Classes](#)  
[Managing Operation Policies](#)  
[Using Network Printers](#)  
[Firewalls](#)  
[cupsd.conf Reference](#)

### CUPS for Developers

[CUPS Programming Manual](#)  
[Filter and Backend Programming](#)  
[Developer Forum](#)

- The Utility gives you three options, **Add printers, Find New Printer and Manage Printer**. If you want to manage a pre-installed printer, you need to click on the **Manage Printer** button. To add a new printer, click on **Add Printer**.
- The system will ask for Username and password. Put **root** as the user name and **thinux** as password.
- If your printer is connected with the thin client, it will show it's name in the **Add Printer** configuration window. Select the printer which you want to and click on **Continue**.

## Managing RDP Preferences

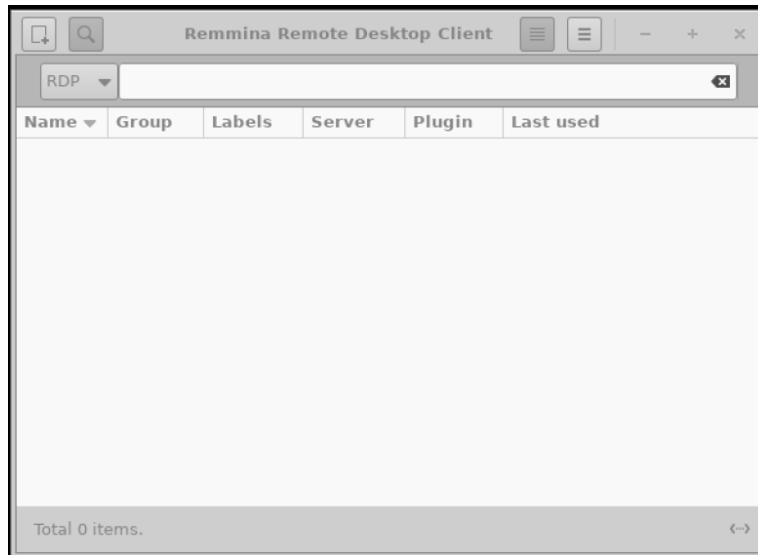
Thinvent has provided two ways by which you can access any operating system remotely from anywhere. These ways are:

1. Remmina.
2. Kiosk Mode.


### 1. Remmina

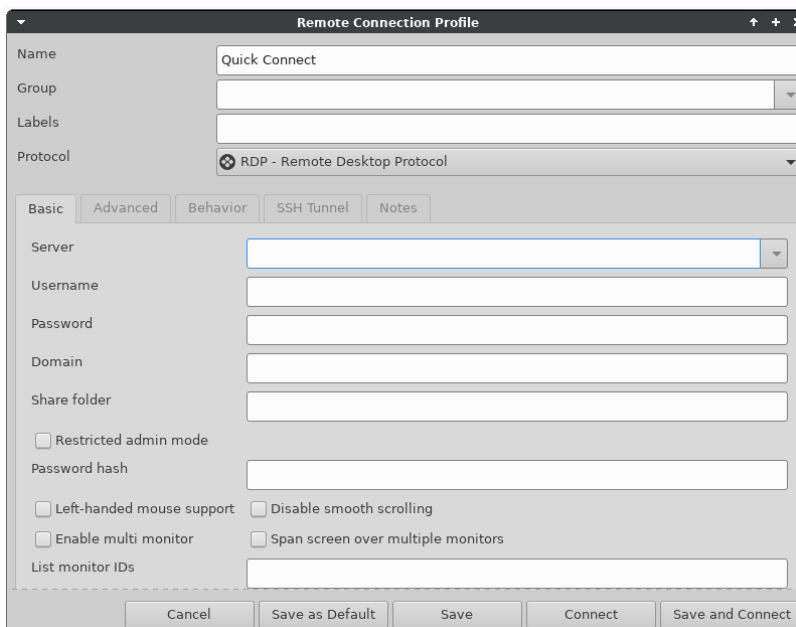
Remmina is a remote desktop client which is widely used in the Linux based operating systems. It supports the **Remote Desktop Protocol** which is used to connect with a remote system. You can access the Remmina application in the thin client via the **main menu** or just click on the Remmina icon which is on the **taskbar**. Once clicked, you will see the main Remmina dialog box where you can make your connection settings.





Although you can connect to a remote system by just mentioning the I.P address of the remote system in the RDP section, by doing this you won't be able to explore the features of Remmina. So, it is always preferred to create a new connection with all those options enabled.

To create a new connection click on the icon  and the Remote **Desktop Preference** window will open. By default, the protocol selected in the **Protocol** section is NX-NX Technology, you need to select the **RDP -Remote Desktop Protocol** there. Once you are done with it, your **Remote Desktop Preference** would be like the screenshot below. Each field of the window is described below.



- **Name**

This is the name of the computer that you want or wish to connect to,





this does not need to be the actual name that has been assigned to the host computer. You can choose any name that would best describe the computer and differentiate it from the others (if you plan on having multiple hosts).

- **Group**

Leave it as it is , empty. There is no need for it to connect to a remote system.

- **Protocol**

Select the **RDP - Remote Desktop Protocol** for connecting to a server.

- **Pre-command and Post-command**

Remmina has 'Pre' and 'Post' command support to execute a script before it. Connects and after it disconnects, respectively. You can leave those fields blank.

- **Server**

Enter the IP address of the system to which you want to connect remotely. The IP address could be internal i.e if the system is connected with the local network or a public IP address.

- **Username and Password**

Enter the username that you wish to log onto your host computer in the **Username** field. In the **Password** field, you need to enter the password of the user to whom you are going to connect.

- **Domain**

If your networking has a domain name, then mention its name in this field. Otherwise, leave it blank.

- **Resolution**

There are 3 options provided in the resolution field. If you choose **Use initial window size**, the RDP screen would be compact. This option is not recommended so it is better to choose the **Use client resolution** option. If you want to set a custom resolution then select **Custom** and select the appropriate resolution from the drop-down list.

- **Colour Depth**

Select the appropriate colour depth via this option. This is an important selection, if you select the default option of 256 colours (8bpp) and your default background is Hi-Res then you will start to see some funky colours and it is generally unworkable. If you are on a slower connection or if you are connecting to an external machine outside of your network you may need to reduce the number of colours. By default, you can set it on the predefined settings which is **GFX AVC420(32bpp)**.

- **Network Connection Type**

Use this option if you want to connect your network from your thin



client to your remote pc or vice-versa. Once you select this box, it will give you an option which network connection type you want to connect your network to your device.

- **Share Folder**

Use this option if you want to copy a file from your thin client to your remote pc or vice-versa. Once you select this box, it will give you an option which folder or path you want to share and the same folder or path will appear in your Windows machine. Once all these options are filled, your **Remote Desktop Preference** screen will look like

The screenshot shows a 'Remote Connection Profile' window with the following details:

- Name:** Quick Connect
- Group:** (empty)
- Labels:** (empty)
- Protocol:** RDP - Remote Desktop Protocol
- Basic Tab:**
  - Server:** 192.168.1.50
  - Username:** test
  - Password:** (masked with dots)
  - Domain:** (empty)
  - Share folder:** (empty)
  - Restricted admin mode:** ☐
  - Password hash:** (empty)
  - Left-handed mouse support:** ☐
  - Disable smooth scrolling:** ☐
  - Enable multi monitor:** ☐
  - Span screen over multiple monitors:** ☐
  - List monitor IDs:** (empty)
- Buttons:** Cancel, Save as Default, Save, Connect, Save and Connect

- Click on the **Advanced tab** to enable other features like sound during the RDP connection.



The screenshot shows the 'Remote Connection Profile' window with the 'Advanced' tab selected. The 'Name' field is 'Quick Connect', 'Group' is empty, 'Labels' is empty, and 'Protocol' is 'RDP - Remote Desktop Protocol'. The 'Advanced' tab contains the following settings:

- Quality: Poor (fastest)
- Security protocol negotiation: Automatic negotiation
- Gateway transport type: HTTP
- TLS Security Level: Default
- FreeRDP log level: INFO
- FreeRDP log filters: (empty text box)
- Audio output mode: Off
- Redirect local audio output: (empty text box)
- Redirect local microphone: (empty text box)
- Connection timeout in ms: (empty text box)

At the bottom, there are buttons for 'Cancel', 'Save as Default', 'Save', 'Connect', and 'Save and Connect'.

- **Quality**

This option is related to the quality of the RDP connection. The list provides options like Poor, Medium, Good, Best. If you choose the Best option, your overall RDP connection quality will be good however, you may experience some lag in your connection. So, it is advised to have the Poor option selected in this field.

- **Security protocol negotiation**

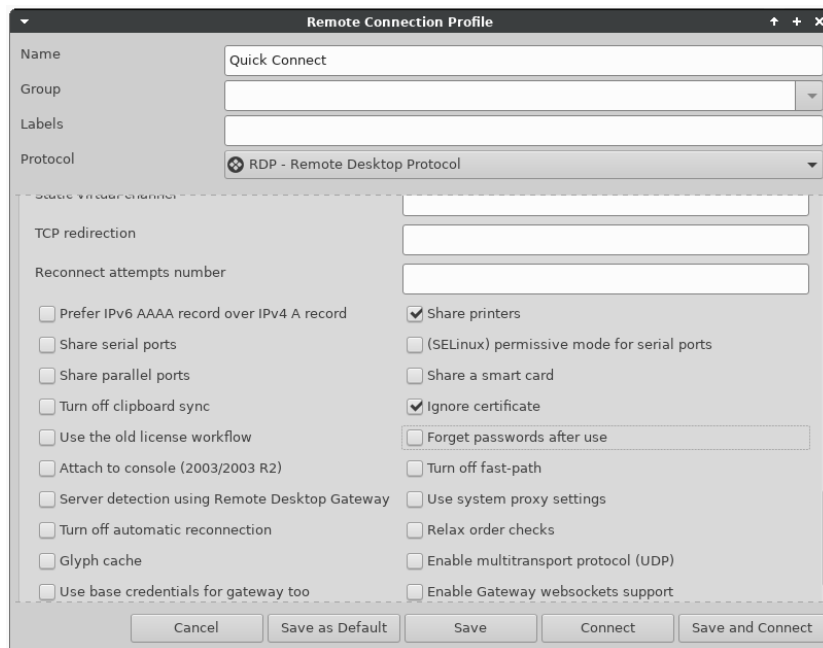
This option is used for security protocol negotiation over the RDP connection. You can choose from options like Automatic negotiation, NLA protocol, TLS protocol, RDP protocol, NLA extended protocol etc. here.

- **Security**

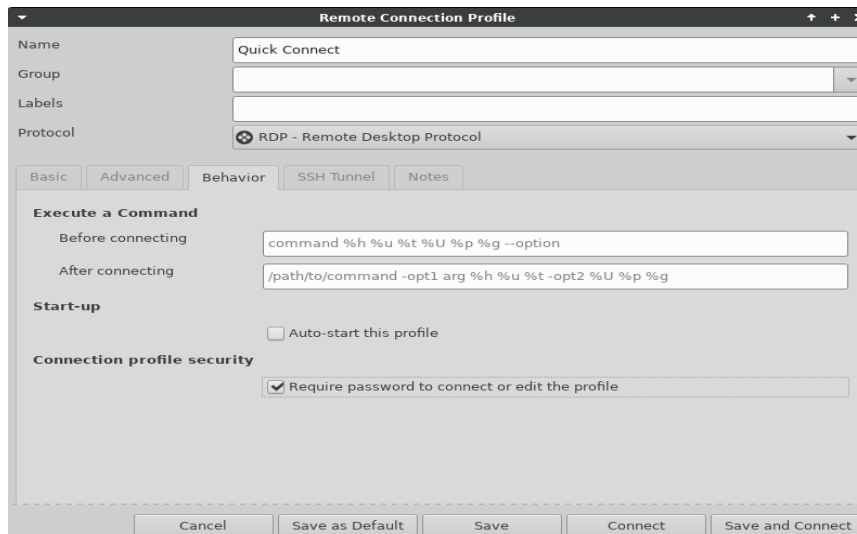
You can choose the level of security like NLA, TLS, RDP from this option otherwise leave this option on Negotiate.

Now, scroll down the window and select options like **share local printers** etc. according to your needs.



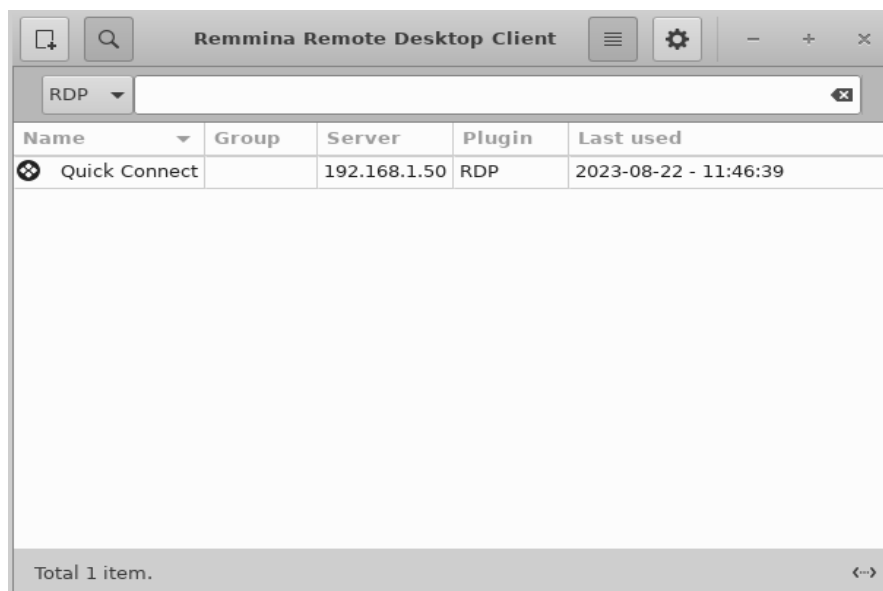


If you want to get connected to your created connection automatically once you open the Remmina, you need to check the **Turn on “Behavior” for this profile.** option in the **Autostart** tab.



Click on the **Save** button once you are done with the settings options. Once it is done, you will see a connection connected with the name provided by you in the main Remmina window.



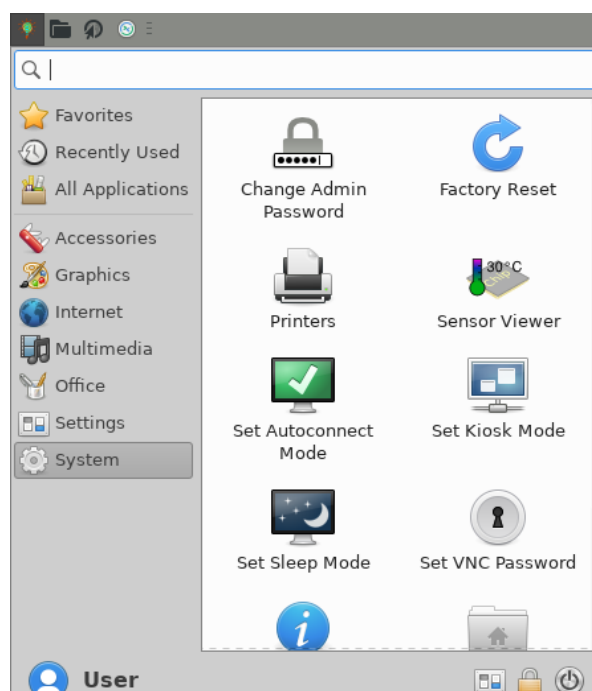


You just need to double click on the connection which has been created and you will be connected to the host system whose access you want to have.

## 2. Kiosk Mode

Kiosk mode is a feature that only allows you to run one application and that is Remmina. Other features of the Thinix operating system like the GUI and other things get disabled and you will see the Remmina window only on your screen.

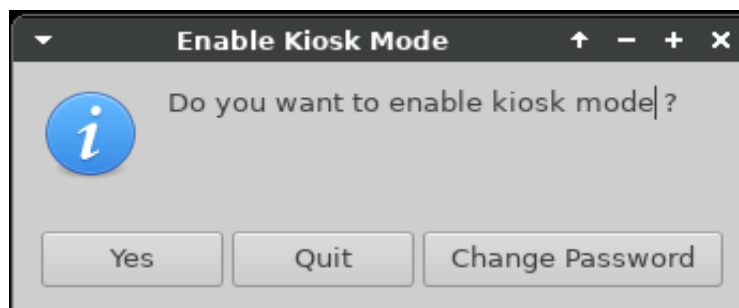
- Click on the **Enable Kiosk Mode** icon in the Thinix menu to enable the Kiosk Mode in your thin client.



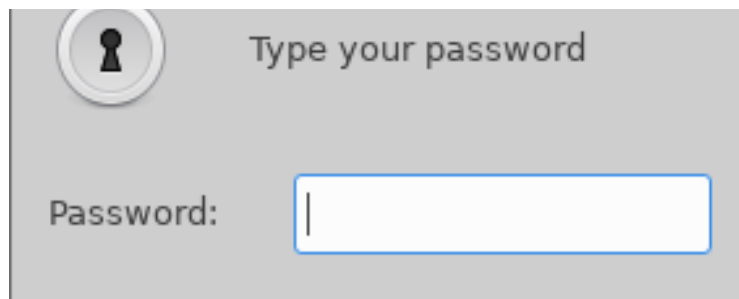
**Note:**

**Before accessing the Kiosk mode, you need to create the RDP connection in the Remmina first because one system enters into Kiosk mode, it doesn't allow you to create new connections or make changes to the existing connection.**

- Once you click on the icon, a dialog box will appear asking you to enable the Kiosk mode are not. It gives you the option to enable the mode(**yes**), **quit** the mode in case you have accidentally clicked on the Kiosk mode icon and **change password**.



- If you click on **yes**, the system will ask for the password to enable the Kiosk mode.



- The system will go into Kiosk mode if you enter the correct password, otherwise it will show that the password you entered is wrong.
- Once you enter the Kiosk mode, you will see the only window which is the Remmina window and it will have the created RDP connection which you have created before enabling the kiosk mode.(SS).
- If you haven't selected the auto connect option, the system will not auto connect to the remote system. If it is checked, then the system will automatically connect to the remote system once you enable the kiosk mode.(SS)



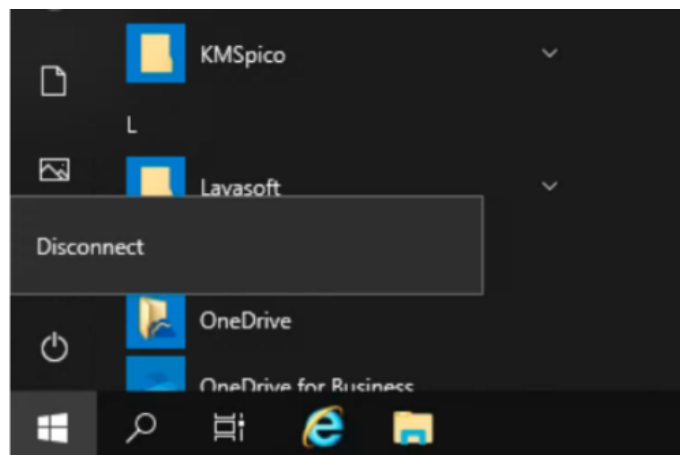
- To disable the kiosk mode, click on the button \* on the Remmina window. It will open a dialog box where you would be asked to either shut down the system or configuration. Click on the configuration tab and it will ask for the kiosk mode password. Entering the password successfully will disable the Kiosk mode and it will take you back to the Thinix operating system GUI.(SS)
- If you wish to enable the Kiosk mode forever then you can just shut down and the next time the system boots, it will automatically connect to the remote system.(SS)

## Disconnect RDP From Server

There are two methods by which you can disconnect the RDP connection from a server.

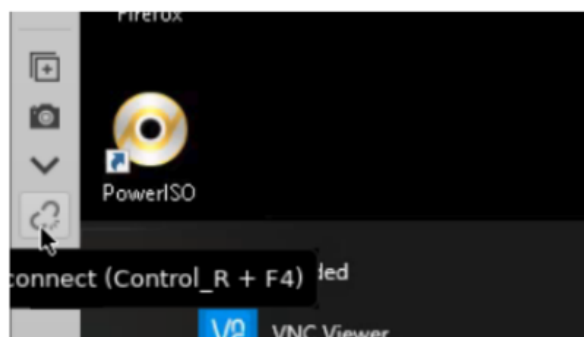
### • Method 1:

Click on the **shutdown** button which is in the start menu of the Windows. You will see the **Disconnect** option. Click on it and your RDP connection will be disconnected



### • Method 2:

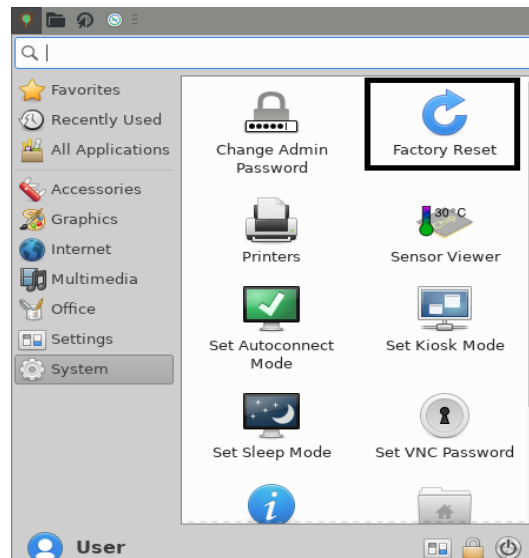
Remmina has the disconnect option. You just need to click on the option and the RDP will be disconnected.



## Factory Reset

If the thin client is not functioning properly or some of the operating system features are not working, in such case you can try factory resetting the system. Doing a factory reset restores the system back to its original state when it was delivered to the customer.

To perform the factory reset, go to the main menu and search for the factory reset icon.



Clicking on that icon will ask you to reboot the system. Click on yes. Once reboot is done, your system will be factory reseted

### **NOTE:-**

If the device is customised and made kindly contact our support team on **+91-9990344247** Or drop an email at [support@thinvent.in](mailto:support@thinvent.in) Before doing Factory Reset.





# Appendix

## Safety Information

Your Mini PC is designed and tested to meet the latest standards of safety for information technology equipment. However, to ensure your safety, it is important that you read the following safety instructions.

To avoid injury, be careful of:

- Damage to power adapter wires that could cause a short circuit
- To reduce the possibility of heat-related injuries or of overheating the device, do not place the device directly on your lap or obstruct the device air vents.
- Use the device only on a hard and flat surface.
- Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or rugs or clothing, to block airflow.
- Also, do not allow the AC adapter to contact the skin or a soft surface, such as pillows or rugs or clothing, during operation.
- When the computer is plugged into an AC power source, voltage is always applied to the system board. You must disconnect the power cord from the power source before opening the computer to prevent system board or component damage
- Always be properly grounded when touching a sensitive component or assembly.
- Avoid contact with pins, leads, or circuitry.

## Operating Guidelines

To prevent overheating and to help prolong the life of the thin client:

- Keep the thin client away from excessive moisture, direct sunlight, and extremes of heat and cold.
- Never restrict the airflow into the thin client by blocking any vents or air intakes.
- Occasionally clean the air vents on all vented sides of the thin client . Lint, dust, and other foreign matter can block the vents and limit the airflow. Be sure to unplug the Mini PC before cleaning the air vents.
- Never operate the thin client with the cover or side panel removed.
- **Do not stack computers on top of thin clients that may be subject to each other's re-circulated or preheated air.**
- If the thin client is to be operated within a separate enclosure, intake and exhaust ventilation must be provided on the enclosure, and the same operating guidelines listed above will still apply.
- Keep liquids away from the thin client.
- Never cover the ventilation slots on the thin client with any type of material.



## Warranty And Services

Thinvent Technologies grants to its End Customers a standard one-year hardware warranty for the thin client after delivery of the product by Thinvent Technologies Pvt. Ltd.

- The purchased product should have the seal of warranty void.
- The warranty product must include the invoice mentioned with the serial number.

### Serial Number Location

Each device has a unique serial number that is located on the exterior of the thin clients. Keep these numbers available for use when contacting customer service for assistance.

### Warranty Case

If any defects in material and workmanship occur during the warranty period Thinvent Technologies will, at its option, either replace a defective product with a new or rebuilt product or repair it with new or rebuilt parts at no charge, except for the warranty exclusion reasons stated below. Replaced parts or products become the property of Thinvent Technologies.

### Warranty Exclusion Reasons

The hardware warranty assumes no liability for the loss of or damage to goods following:

- Shipping or improper installation or maintenance.
- Misuse, neglect, adjustment or improper environment.
- Any cause other than ordinary commercial application.
- Repair, modification or installation of options or parts by the End Customer or an unauthorised third party.
- Excessive or inadequate heating or air conditioning, or electrical power failures, surges, or other irregularities.
- Usage outside of the technical specifications of the product.
- Use of adaptors besides the one provided by the company.
- Burn Operating System, from a third party secretly.
- Damage caused by accident, abuse, misuse, fire, liquid contact, earthquake or other external cause
- To cosmetic damage, including but not limited to scratches, dents and broken plastic on ports unless failure has occurred due to a defect in materials or workmanship.
- Thinvent Technologies is not liable for product descriptions and warranties made by other parties or persons than Thinvent Technologies.



# Frequently Asked Questions

## **Q: I am not able to make RDP connections to the server.**

**A:** There could be many possibilities behind this.

1. Try to ping from your thin client to the server. If it is not pinging, then there is some issue with your networking.
2. If ping is happening from server to thin client but not from thin client to server, **disable the firewall and antivirus** in the windows server.
3. If you are connecting to a particular user on the server and you are not able to connect to it, check whether the user is added in the **Remote Desktop User** or not.

## **Q: Doesn't it support Dual Display ?**

**A:** No it supports, since it has HDMI Ports.

## **Q: My Micro 5 Pro won't turn on. What should I do?**

**A:** Check if the power adapter is properly connected to the Micro 5 pro and the electric socket. Also, check the correct voltage is supplied to the Micro 5 Pro and make sure that the same adapter is being used which is provided by the company.

# Get In Touch

Our support team is always happy to assist you with any problems you may face in using our products. Please feel free to reach us using the following means.

### **Support Hotline:**

Mobile: +91 99903 44247

Phone: 91-11-430-77467

Email:

support@thinvent.in

### **Corporate Office**

1142, Tower B3, Spaze

i-Tech Park

Sector 49, Sohna Road

Gurgaon – 122 018

Phone: 91-11-430-77467

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