# **Quatech Model USBN-500**

Network USB2.0 Device Server Over IP 4-Port USB2.0 Device

**USER MANUAL** 

# **USB Device Server Windows Client**

# **User Manual**

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# **1. Introduction**

USB-IP application enables the virtualization of USB devices over LAN (Local Area Network) as if they are connected local to your PC. By this implementation, USB devices connected to this USB device server can be made available to remote Clients over LAN.

Key Features of the USB-IP application are

- Allows USB Devices to be used and shared by client PC's over LAN.
- Supports wide variety of USB devices.
- Compatible with bulk, interrupt and isochronous type USB devices.
- Supports printing to USB printer from both Wired and Wireless Interface.
- Supports printer auto-reconnect while sharing the printer to different Client PC's.
- Supports auto sharing of USB devices.
- Supports USB device safe removal.
- User-Friendly Application interface.

# 2. Windows utility

USBIP Admin utility Setup is an Install Shield based application, which can be used for installing, uninstalling and upgrading this USB device server Client S/W. Please run the self-explanatory Install shield application to install this USB device server Admin Utility.

Admin utility application enables the USB devices virtualization along with USB Server Firmware loaded onto this USB device server. Any USB device connected to this USB device server can be made available over the Network, for different Windows hosts to use the device. USB Server supports monopoly type connection i.e USB device connected to this USB device server can be accessed by one host at a time. Other Windows host can access this USB device, once first host relinquishes the connection. Different Windows hosts can access different USB devices connected to this USB device server.

Eg : If USB Pen Drive, USB Audio device, USB 1.1 Web Cam & USB DVD Rom drive are connected to this USB device server. Then PC1 can access Pen Drive, PC2 can access Audio device, PC3 can access Web Cam & PC4 can access DVD ROM drive.

Pen Drive can be accessed by PC2 or PC3 or PC4, once PC1 relinquishes the connection. In-case of Printers, USB Server application's Auto Reconnect feature enables multiple Windows hosts to use the Printer simultaneously.

The USB device server & all the Windows Hosts need to be connected to the same LAN & under same IP subnet for above.

# 2.1. Virtual USB-IP Driver Software

This contains a Virtual Bus Enumerator driver & Virtual Bus driver. These drivers will help in **virtualizing** the USB devices attached on the USB-Server.

Virtual Bus driver takes the USB traffic from the USB Client drivers on Windows Host and passes it to the USB device server, which is sitting remotely on the network.

As soon as the utility is installed this application will be placed in the system tray as shown in the figure below.



Double click the icon on the system tray to view the Full screen mode of the PC client application as shown below.



#### USBIP

Admin tool

The application has four panels, which are docked in the application.

1) Main window: This displays all the Device server and the USB Devices connected on them

2) Function Panel: This panel enables to switch between the Device Mapping and Server Manager Application.

3) Server/Device Details Panel: This displays the more information of the server and the device selected on the main window.

4) Log panel: Any event on the USB server creates a log in the Log panel. This helps in continuous monitoring of USB device servers on the network.

The Admin Utility has two main functionalities built in

- a) Device Mapping
- b) Server Manager

# 2.2. Device Mapping

Device Mapping enables virtualization of all USB Devices connected to the USB device server on to your PC, over LAN.

Click on the Green Arrow Button in the Admin utility to start the device mapping, which will automatically start the 'Found New Hardware' wizard to install the Virtual USB driver.

Continue the Add New Hardware wizard to install the Virtual USB driver for the USB device server Admin utility.

Make sure "Search for a suitable driver for my device (recommended)" is selected. Click on Next

and the Operating System automatically searches for the driver until the Virtual USB over IP driver is installed.

Make sure that you click on "Continue anyway" if a Windows dialog pops up about the Digital Signature as shown below.

1	The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP, [] elling why
	this testing is important.)
	Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly community that now show this installation now and
	contact the software vendor for software that has passed Windows Logo testing.
	contact the software vendor for software that has passed Windows Logo testing.
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	contact the software vendor for software that has passed Windows Logo testing.
	contact the software vendor for software that has passed Windows Logo testing.

Power on the USB device server and connect an Ethernet cable from the USB device server Ethernet port to your Local Area Network.

The USBIP Windows Admin utility is capable enough to identify the USB device server by it's IP address on the network. As soon as the USB device server is detected with a specific IP address the Windows automatically invokes a Found New Hardware Wizard to install the drivers for the USB server box. Continue the Installation to see the USB device server and the USB devices connected in the Admin utility as shown below.

NOTE: For proper enumeration of device, disable the Firewall option on the Windows PC.

🚭 USBIP Admin			
Eile Functions Device Mapping	<u>V</u> iew <u>H</u> elp		
🕩 🙁 📉 🖗	۷ 🕲		
	Device Mappi	ng	Server Details
Device	nfo Port	Class Status	
Device Mapping	2.168.3.22 ( Loaded Successfully )		
Server Manager			
<			
S.No Date : Time	Description		
1 02-08-2007 : 16:4	2.15 Started Device Mapping Functionality.		
2 02-08-2007 : 16:4	221 Informed New Server 192.168.3.22 Arriva	Summer field II	
5 02-08-2007 : 16:4		Successiul.n	
<			>
Device Mapping Log Server M	anager Log		
	Server (192.168.3.2	2) Arrival Notification Successful	.!! 2/8/2007 16:42:29

In the Device mapping window, all the USB devices connected are shown as a tree under the USB Server. Right click on any device and click on "Connect" to virtualize that USB device onto your PC as shown below.

USBIP Admin File Functions Dev	vice Mapping View	Help				
		J 🥶 Dev	/ice Mappin	g		Device Details
1	Device Info		Port	Class	Status	Vid: 058f
Device Mapping	→ 192.168 → 40 Mass 9 → Camer → Camer → Camer → USB2. → Mass 9	3.22 ( Loaded Sticcess) torage Device 3 Storage Device torage Device	258 770 260 261	Mass-Storage Vendor-Specific Mass-Storage Mass-Storage	Connected Free Free Free	Pid: 6387 Product Name: Mass Storage Device Rev: 0141 Class: Mass-Storage ServerIP: 192,188.3.22 PortNo: 261 Status: Free
	<		00		2	
S.No I	Date : Time	Description				
2 02-06 3 02-06 4 02-06 5 02-06	3-2007 : 16:42:21 3-2007 : 16:42:21 3-2007 : 16:57:22 3-2007 : 16:57:22	Informed New Server 19 Server (192.168.3.22) Ar Informed Device (192.16 Device 192.168.3.22 : 2	2.168.3.22 Arrival rival Notification St 8.3.22 : 258) Arriva 58 Connect Intimat	uccessful.!! al Notification. ion Successful		
Device Mapping Lo	9 Server Manager	Loa				
		De	vice 192.168.3.22	: 258 Connect Intim	ation Successful	2/8/2007 16:57:34

## 2.3. Server Manager

Server manager enables the Administrator to configure the USB device server on the network.

🚰 USBIP Admin						
<u>File Functions Se</u>	erver Manager – <u>V</u>	iew <u>H</u> elp				
	2					
0		Serv	er Manager - Fou	und 0 Servers(s	)	Server Details
S25-	S.No.	Model	MAC Address	IP Address	Status	
Device Mapping						
1						
Server Manager						
						< · · · · · · · · · · · · · · · · · · ·
						Connected Clients (IP : USB Port)
	<		(1111		>	
S.No	Date : Time	Descrip	tion			
<	_		- 10			
Device Mapping L	og Server Manaj	ger Log				
			Server (192.16	68.3.22) Depature Notific	ation Successful.!!	2/8/2007 16:59:32

The Server Manger also has an option to search for the USB servers on the Network.

Right Click on Server Manager Main window and Click on "Search server" as shown below. The same can be done by selecting "Search Servers" from "Server Menu".

USBIP Admin Elle Functions Ser	ver Manager _	<u>√</u> iew <u>H</u> elp				
		Serv	er Manager - Fou	Ind 0 Servers(s	)	Server Details
Device Mapping	S.No.	Model	MAC Address	IP Address	Status	
Server Manager						
						Connected Clients (IP : USB Port)
	<		- fut			<u>&lt;</u>
S.No I	Date : Time	Descrip	tion			
Device Mapping Lo	g Server Mana	iger Log	111			
			Server (192.16	8.3.22) Depature Notific	ation Successful.!!	2/8/2007 17:00:23

It pops up the 'Searching for Servers' dialog and list all the USB device servers on the Network as shown below

earching fo ound 1 Ser	or Servers ver(s), remaining time = 2	second (s)	X Stop
No	Model	MAC Address	IP Address
1	XXXXXX-XXX	22-54-5f-d2-f7-e	192.168.3.22

The USB Device Server search is password protected and should be unlocked in order to configure the selected device.

🗠 USBIP Admin					
<u>File</u> Functions <u>Server Manager</u>	ger <u>V</u> iew <u>H</u> elp				
🗇 🛓 📀					
	Server Ma	anager - Found	d 1 Servers(s)		Server Details
S.No.	Model M	AC Address	IP Address	Status	
Device Mapping	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	<u> S</u> earch Servers	.22	Locked	
		all Unlock			
		Upgrade <u>F</u> irmwa	re		
Server Manager		Server Configura	tion		
		Restore Factory I	Defaults		
					• • •
					Connected Clients (IP : USB Port)
		i	i	Þ	• • •
, , , , , , , , , , , , , , , , , , , ,				,	
S.No Date : Tim 1 29-08-2008, 02	28:26 1 Server(s) Found	1			
2 29-08-2008, 02	:28:41 1 Server(s) Found :08:40 Unlock successful				
4 29-08-2008, 05	:50:40 1 Server(s) Found	ť			
Device Menning Log Server 1	Manager Log				
Device Manual Dog		Server (192,168,1)	23 22) Arrival Notificat	ion Successful U	29/8/2008 05:51:45

On selecting 'Un-Lock' the password dialog pops up as shown below. Key in the password in the 'Password' dialog. The default password for the USB IP Server is "usbip"

199

If the Authentication is successful a 'Unlock OK' dialog appears.

Now the Device server can be configured for various settings as given below.

#### a) Server Configuration

Server Manager has an option to change Server Configuration settings through USBIP Admin Utility.

To open server configuration window right click on the USB device server displayed on the Server Manager Main window and select "Server Configuration" option as shown below..

🗠 USBIP Admin						_ 🗆
<u>File</u> Functions <u>Se</u>	erver Manager – <u>V</u> i	ew <u>H</u> elp				
) 🛓 😳						
D		Server M	/lanager -	Found 1 Servers(s	;)	Server Details
A.	S.No.	Model	MAC Addres	s IP Address	Status	
Device Mapping	1 ×	XXXX-XX	22-54-51 AP 79	Search Servers	Unlocked	
10				IInlock		
				Ungrade Firmware		
Server Manager			1	Server Configuration		
				Restore Factory Defaults		
			_	<u></u>		
						Connected Clients (IP : USB Por
	•			1	F	
						,
S.No I	Date : Time	Description				
1 29-08	3-2008, 02:28:26	1 Server(s) Fou	und			
3 29-08	3-2008, 03:08:40	Unlock success	ful U			
4 29-08	3-2008, 05:50:40	1 Server(s) Fou	und			
5 29-08	3-2008, 06:14:13	Unlock success	ful!!			
•						
Device Mapping Lo	g Server Manager	Log				
			Server (	192.168.123.22) Arrival Notific	ation Successful.!!	29/8/2008 06:14:28

It pops up Server Configuration window as shown below.

Server Configuration		×
Information Model Name : XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Basic Settings IP Settings Password       Modifie       Server Name:	
	Save X Ca	ancel

**Basic Settings Page** 

The Basic Settings page allows you to specify a server name .Check the modify box and enter server name as shown below.

🗰 Server Configuration		×
Information Model Name : X000000000000000000000000000000000000	Basic Settings IP Settings Password           Image: Modify           Server Name:	
	Save X Canc	el

#### **IP Settings Page:**

The IP Settings page allows you to modify the USB device server IP Address as shown below.

🌞 Server Configuration		×
Information Model Name : X000000-XXX Mac Address : 22:54:5f:d2:f7:0e Serial Number : 6000 Firmware Version : 0.0.9	Basic Settings IP Settings Password          Modify:         IP       Static         IP Address:       192       168       123       22         Subnet Mask       255       255       0         Gate Way:       192       168       123       254	
	🖌 Save 🌋 Cancel	

The Default IP Address is 192.168.3.22

To modify the IP Address of the USB device server, check the 'Modify' box and Select IP Configuration (Select IP configuration Static/DHCP from IP Configuration drop-down box) as shown below.

Server Configuration		×
Information	Basic Settings       IP Settings       Password         IP       IP       Static         IP       DHCP       DHCP         IP Address:       Static       Static         Subnet Mask       255       255       0         Gate Way:       192       168       123       254	
	🖌 Save 🏋 Cance:	

After Selecting IP Configuration key in the IP Address of the USB device server in the IP Address field followed by proper Subnet Mask & Gate Way as shown below.

formation —	Basic Settings IP Settings Password
Model Name :	
XXXXXX-XX	🔽 Modify
Mac Address :	
22:54:5f:d2:f7:0e	Static
Serial Number :	IP Address: 192 . 168 . 123 . 22
6000	Subnet Mask 255 255 255 0
Firmware Version :	Sublici Ploak 255 . 255 . 255 . 5
0.0.9	Gate Way: 192 . 168 . 123 . 254

After entering IP address, Subnet Mask & Gate Way then click on "save" button. Then USBIP Admin shows progress bar for some time and after it pops up a message box as shown below.



**Note:** Every board in the network is identified by its IP address. The utility treats each IP address as unique device. Even if the IP address of the box is modified it treats the same box as a different device and will pop up a Found New Hardware Wizard.

Continue the Found New Hardware Wizard to install the Virtual USB-over-IP bus driver.

Now the USB device server appears with changed IP Address under USBIP Admin utility.

#### **Password:**

The Password Settings page allows you to change or Enable/Disable password of the USB device server. The Password settings page will be as shown below.

_ Information	Basic Settings IP Settings Password	
Model Name :		_
XXXXXX-XX	□ Modify	
Mac Address :	🔽 Enable Password	
22:54:5f:d2:f7:0e		
Serial Number :	☐ Modify	
6000	New Password	
Firmware Version :		
0.0.9	Confirm Password:	

Check the Modify box to Enable or Disable password option to the USB device server.

# **b) Upgrade Firmware**

This USB device server Firmware can be upgraded remotely using the Firmware upgrade option.

Select the server on the Server manager. Right Click on the server and Select Upgrade Firmware option to upgrade the firmware.

🚭 USBIP Admi	D.				
File Functions	$\underline{S}$ erver Manager	<u>V</u> iew <u>H</u> elp			
🔹 🎝	2				
D		Serve	er Manager - Fou	ind 1 Serv	vers(s)
	S.No.	Model	MAC Address	IP Addres	ss Status
Device Mapping	1	XXXXXXX-XX	22-54-5f-d2-f7-e	192.16	
				<i>J</i>	Search Servers
1					<u>U</u> nlock
Summer Manual					Upgrade <u>F</u> irmware
Server Manager				ü	Server <u>C</u> onfiguration
					<u>R</u> estore Factory Defaults

Select the upgrade file by clicking on the Browse option in the "Select File" dialog as shown below.

Select File		
Give File <u>P</u> ath		
D:\13July_2007\upgrad	deltar.bz2	Browse
	A muse for	(Marcal)
	Transfer	

A upgrade.tar.bz2 file is required to upgrade the firmware. The upgrade .tar file can be downloaded from our website.

Click on "Transfer" to upgrade the firmware. A firmware upgrade status is displayed which automatically relinquishes once the transfer is completed.

S.No.	IP Address	% Completion	Status
	192.168.3.22	Uploaded 100%	Uploading

As soon as the transfer is completed, the USB device server automatically restarts to apply the upgraded firmware settings.

## c) Restore factory defaults

Right click on the USB device server under Server Manager Window and select the Restore Factory Defaults function to obtain Default settings as shown below.



Then USBIP Admin Utility pops up a window asking for to continue or not. If we select Ok button it will get default settings.

USBIP A	dmin	
(į)	Restoring factory defaut values. Do you w	ant to continue?
	Cancel	

# 2.4. Printer Auto-Connect

USB Admin Utility enables Printers be shared between multiple clients making it a bidirectional Print Server.

In order to share the printer between multiple clients, user may need to connect the printer at least once to install the driver for the Printer.

Once the printer is enumerated disconnect the Printer form the Device Mapping Window, Select

the Printer Auto Reconnect button Window.





Select the Printer which was connected and Click on "Save" and close the Window.

Once the Printer is configured for Auto-Connect mode, It remains free as long as the Printer is connected and becomes "Busy" only when a user prints to the printer connected.

Multiple User print jobs will be executed on a time sharing basis.

# 3. USB-IP Web Server

It is an administrative web interface for this USB-IP application. A web server running on this USB device server allows administrator to view and change some of the key configuration of this USB device server.

## 3.1. Web-Interface overview

The USB-IP web-server is an administrative web interface for the USB-IP application. Ordinary users can easily administrate it. The web interface has four configuration pages and a home page.

The home page displays the current network settings, Server name and Firmware version.

From the "Network" page you can easily change the settings of the both wired and wireless Interfaces. For the wired interface you can configure the Static IP manually or set the box to automatically obtain an IP address by setting to the Dynamic (DHCP) mode.

Through "Status" tab you can view the USB devices, which are connected to the USB device server USB-IP Server, the product and vendor ID of the device, the IP Address of the host and also the Status of the devices.

The Upgrade tag allows you to upgrade the firmware.

#### **3.2.** Home Page

The USB-IP Web Server can be accessed by typing the IP address of the server in the URL of the

browser, which will displays the default home page of the Server. Default IP address is 192.168.3.22, for USB Server application & the USB device server will have this IP address when USB Server Firmware is loaded on to it.

http://192.168.3.22

🎯 Dack = 🐑 = 📕 🛃 (	🕜 🔑 Search 👷 Favorites 🜒 Media 🚱 🔯 - 🍚 🔯 -	
ddress 🙋 http://192.160.0.22:0000		💉 🔁 Go 🛛 Links
		li i
	USB/IP	Server
	Version 1.0.	.0.10
home network	status upgrade thanks	1 connected users
welcome, pavan		1 connected users
server summary	Welcome	
Server Number - 60000 Server Nume - XXXXXX Server Mulei - Nil4 FW Version - 1.0.0.13	This is the administrative web Interface for USB/IP Server. Abourt USB over IP allows working with the remote USB devices over a local network or Internet. FCBULTCS	
network summary - wired	<ul> <li>Allows working with remote USB devices as with local ones.</li> </ul>	
MAC id - 00:50:c2:15:70:2f	Multiple USB devices can be shared on server.	
Subuet - 255.255.255.0	<ul> <li>Multiple USB devices can be accessed from client.</li> </ul>	
Geteway - 192 160 2 1	Wide variety of USB devices is supported.	
Gateway - 192.160.3.1 II' Conf Static II'		
Gateway - 192.160.3.1 II' Conf Static II'	Auto-connecting of USD devices which got shared on the server.	
Gateway - 192.100.3.1 II' Conf Static II'	<ul> <li>Auto-connecting of USD devices which got shared on the server.</li> <li>Auto-sharing of USB devices is supported.</li> </ul>	
Gateway - 192.100.3.1 II' Conf Static II'	<ul> <li>Auto-connecting of USD devices which got shared on the server.</li> <li>Auto-sharing of USB devices is supported.</li> <li>USB devices safe removal is supported.</li> </ul>	
Gateway - 192.160.3.1 Il' Conf Static II'	<ul> <li>Auto-connecting of USD devices which got shared on the server.</li> <li>Anthesharing of USB devices is supported.</li> <li>USB devices safe removal is supported.</li> <li>User-friendly program interface.</li> </ul>	
Gateway - 192.160.3.1 Il' Conf Static II'	<ul> <li>Auto-connecting of USD devices which got shared on the server.</li> <li>Auto-sharing of USB devices is supported.</li> <li>USB devices safe removal is supported.</li> <li>User-friendly program interface.</li> </ul>	
Gatewey - 192.1.00.3.1 II' Conf Static II'	<ul> <li>Auto-connecting of USD devices which got shared on the server.</li> <li>Auto-sharing of USB devices is supported.</li> <li>USB devices safe removal is supported.</li> <li>User-friendly program interface.</li> </ul>	
Gateway - 192.100.3.1 II' Conf Statio II'	<ul> <li>Auto-connecting of USD devices which got shared on the server.</li> <li>Auto-sharing of USB devices is supported.</li> <li>USB devices safe removal is supported.</li> <li>User-friendly program interface.</li> </ul>	

On password prompt please give '**admin**' as user name and '**usbip**' as password. This will bring the home page. If there is no prompt for password please ensure 'proxy settings' are disabled in the Windows PC Browser software (Eg. Internet Explorer).

1) Home Page contains the information about current network settings, it displays.

- a) Server Summary:
  - Serial Number Server Name Server Model FW-Version
- b) Network Summary: MAC id Server IP Subnet Gateway IP-Conf

2) It also shows a welcome greeting and the number of connected users.

# 3.3. Network Page

The "Network" tab allows you to configure both wired as well as wireless interfaces. The default page is of wired interface and it appears as shown below.

aaress en http://192.168.3.22:8080	config.html	S GO LINK
	USB/IP S Version 1.0.0.13	erver
home    network	status upgrade thanks	1 connected users
welcome, pavan	Network Settings	
Serial Number - 60000 Server Name - XXXXXX Server Model - XXXXXX	Select network interface type: Wired 💌 Wi-Fi 🔿	
FW Version - 1.0.0.13	Select server in type: Static C DHCP	
network summary - wired MAC id - 00:50:c2:1b:70:2f Sorver IP 102.168.3.22 Subnet - 255.255.255.0 Gateway - 192.168.3.1 IP-Conf - Static IP	Manual IP Address Settings         Address:       192.168.3.22         Subnet:       255.255.255.0         Default gateway address:       192.168.3.1	
	Inactivity Timer:  C Disable C Enable Make sure that devices connected to the server are tree S submit	

For the wired interface you can configure the Static IP, Subnet Mask, and Gateway manually or set the box to automatically obtain an IP address by setting to the Dynamic (DHCP) mode.

# 3.4. Status Page

	ernet Explorer						
File Edit View Favorites Tools	Help						AL
🌀 Baik 🔹 🜍 - 💌 😰 (	🏠 🔎 Searc	h 🤺 Favo	orites 🜒 Media 🥝	🔊 🍓 🖬	9 • 📮		
Address 🕘 http://192.158.3.22:8080/:	status.ntml						💽 🋃 Go 🛛 Links 🤅
				U	SE	B/IP	Server
home network welcome, pavan	status	L	upgrade thanks			Versio	n 1.0.0.13 1 ccnnected users
home network welcome, pavan server summary	status Status	- L	upgrade thanks			Versio	1 ccnnected users
home network welcome, pavan server summary Serial Number - 60000 Server Name - XXXXXX Server Modal - XXXXXX Server Modal - XXXXXX FW Version - 1.0 0.13	Status thread host 13 192	168.3.23	upgrade thanks action Serving admin pages			Versio	n 1.0.0.13  1 connected users
home network welcome, pavan server summary Serial Number - 60000 Server Name - XXXXXX Server Model - XXXXXX FW Version - 1.0 0.13	Status Status thread host 13 192 uSB-IP Server Broadcast	168.3.23 status Running Running	upgrade thanks action Serv ng admin pages	8		Versio	n 1.0.0.13  1 connected users

The status page displays the current status of the USB devices attached.

a) Thread Status: Thread Session Host Action
b) Service Status: Service Status Control
c) Device Status: Vendor Id Product Id Class Id Peer-IP address Status

This status page is updated automatically every 10 seconds and it shows the device connected to the USB device server.

The Device Status table shows the Vendor Id, Product Id, Class, Peer-IP and the Status of the Device connected. The Peer-IP is the IP Address of the computer on which the device is currently accessed. Whenever any Device is Busy the Status of that device changes to "BUSY" and whenever it is not being used it changes to "FREE" as shown below.

s.no	vid	pid	class	peer Ip	status
1	0116d	01192f	Camera	0.0.0.0	FREE
2	0x58t	0x6387	Mass Storage Device	192.168.3.23	BUSY
э	0x4b4	0x6000	USB2.0 Storage Device	192.160.0.20	DUSY
4	0x58f	0x6387	Mass Storage Device	0.0.0.0	FRFF

# 3.5. Upgrade page.

The Upgrade page allows you to upgrade the firmware.

🗿 .: u s b - i p : Microsoft In	nternet Explorer	
File Edit View Favorites Tool:	ols Help	
🌀 Dack - 🕥 - 💌 😰	🕜 🔎 Search 📌 Favorites 🜒 Media 🤣 🎯 - 🤤	
Address E http://192.168.3.22:8080	30/upgrade.html	👻 🄂 Gu Links 🎽
		*
	USB/II	P Server
	V	orsion 1.0.0.13
linne interviewirk	k status upgrode thanks	1 connected users
welcome, pavan		
server summary	Upgrade	
Serial Number - 60000 Server Name - XXXXX Server Model - XXXXX FW Version - 1.0.0.10	Please specify the file name: Browce	
notwork summary         wirod           MAC id         00:50:c2:1b:70:24           Server IP         102:168.3.22           Subnet         255:255.255.0           Gateway         102:168.3.1           IP Cont         Static IP	Dupgrade Diclear	

Select the file to be upgraded by click on the Browse option on the Upgrade page as shown below.



An upgrade.tar.bz2 file is required to upgrade the firmware.

🚰 .: u s b - i p : Microsoft I	nternet Explorer
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> o	ols <u>H</u> elp
🌀 Back 👻 🕥 - 💌 🛃	🏠 🔎 Search 🦖 Favorites 🜒 Media 🧭 🍰 🍇 🔯 🔹 🧫
Address E http://192.168.3.22:80	30/upgrade.html
harra hatua	de restrict upgrade that
nome    netwoi	K Status Upgraue thanks
welcome, root	
server summary	Upgrade
Serial Number - 60000	Please specify the file name:
Server Name - XXXXXX Server Model - XXXXXX	C:\Documents and Settings\pavan\Desktop Browse
FW Version - 1.0.0.9	
	5 upgrade 5 clear
network summary - wired	ab3.aac
MAC id - 00:80:67:12:ef:4	14
Server IP - 192.168.3.22 Subpet - 255.255.255.0	
Gateway - 192.168.3.1 IP-Conf - Static IP	

Click on "upgrade" to upgrade the firmware



A file successfully uploaded message is displayed and the webpage also indicates that the USB device server is restarting to apply the upgraded firmware settings.