

# RUTM51 USB Tools

[Main Page](#) > [RUTM Routers](#) > [RUTM51](#) > [RUTM51 Manual](#) > [RUTM51 WebUI](#) > [RUTM51 Services section](#) > **RUTM51 USB Tools**

The information in this page is updated in accordance with firmware version [RUTM\\_R\\_00.07.10](#).

□

## Contents

- [1 Summary](#)
- [2 General](#)
  - [2.1 USB Mount Settings](#)
  - [2.2 Mounted File Systems](#)
- [3 Printer Server](#)
- [4 Network Shares](#)
  - [4.1 General Settings](#)
  - [4.2 Shared Directories](#)
  - [4.3 Users](#)
- [5 DLNA](#)
  - [5.1 General Settings](#)
  - [5.2 Advanced Settings](#)

## Summary

The **USB Tools** page is used to manage services related to the device's USB connector.

This chapter of the user manual provides an overview of the USB Tools page in RUTM51 devices.

If you're having trouble finding this page or some of the parameters described here on your device's WebUI, you should **turn on "Advanced WebUI" mode**. You can do that by clicking the "Advanced" button, located at the top of the WebUI.

✘

## General

The **General** section is used to manage global USB settings. It consists of two subsections:

### USB Mount Settings

---

The **USB Mount Settings** section is used to set the transfer type (synchronous or asynchronous) for the USB device.

✘

Synchronous ensures that all changes to the according filesystem are immediately flushed to disk. **Enabling this will drastically lower the life expectancy of your USB device.**

## Mounted File Systems

---

The **Mounted File Systems** list displays USB mass storage devices (MSD) currently attached to this device.



Field	Value	Description
Device	filepath; default: <b>/dev/sd*</b>	The filesystem of the attached USB MSD.
Mount Point	filepath; default: <b>/mnt/sd*</b>	The root directory of the mounted filesystem.
Available	string; default: <b>none</b>	Displays available storage information for a mounted USB MSD.
Used	string; default: <b>none</b>	Displays used storage information for a mounted USB MSD.
In Use	string; default: <b>none</b>	Indicates whether a USB MSD is currently in use by some device service or not.

The **Format** button can be used to format the attached device, and the **Unmount** button next to each entry in the list is used to unmount an attached USB device. Please make sure to unmount a USB device before physically detaching it from the RUTM51.

The **Refresh** is used to refresh the information in the Mounted File Systems list. If you attach a new USB device and cannot see it in the list, try clicking the 'Refresh' button.

**Note:** Usb with NTFS partition is supported in read-only mode.

## Printer Server

The **Printer Server** feature provides the possibility to configure access to a printer that is connected to the USB port of the device. After the printer is connected to the device's USB port and configured, it can be utilized by users in the local network (LAN, WiFi) or remotely.

The 'Add' button lets you add and manage additional printers. To configure a printer instance, click the Edit button located next to it:



Field	Value	Description
Enable	off   on; default: <b>off</b>	Turns USB printer support on or off.
Device	filepath; default: <b>/dev/usb/lp0</b>	Printer's device file.
Port	integer [9100..9109]; default: <b>9100</b>	Printer's TCP port.
Bidirectional mode	off   on; default: <b>on</b>	Turns bidirectional mode on or off.

# Network Shares

The **Network Shares** section is used to manage Network-attached storage (NAS) such as USB drives and hard drives. The RUTM51 device supports the following file system architectures:

- FAT
- FAT32
- exFAT
- NTFS
- ext2
- ext3
- ext4

**Note:** Network Shares is additional software that can be installed from the **System** → [Package Manager](#) page.

## General Settings

---

The **General** section is used to set up **Samba** - a software solution for using the Server Message Block (SMB) networking protocol, which provides shared file access between nodes on a computer network. Refer to the figures and table below for more information about Samba configuration.



Field	Value	Description
Enable	off   on; default: <b>off</b>	Turns Samba on or off.
Hostname	string; default: <b>Router_share</b>	Name of the Samba server.
Description	string; default: <b>Router share</b>	Short description about the Same server.
Workgroup	string; default: <b>WORKGROUP</b>	Name of the server's workgroup.
Share home-directories	off   on; default: <b>on</b>	Allows system users to reach their home directories via network shares.
Interfaces	lan; default: <b>none</b>	Bind samba server to specified interfaces
Insert custom configuration to config	string; default: <b>none</b>	Insert custom line to configuration file.

## Shared Directories

---

The **Shared Directories** section is used to configure access to the device's files and directories, including USB storage drives. The list of Shared Directories is empty by default; click the 'Add' button in order to create a new configuration:



The newly added Shared Directory configuration should look similar to this:



Field	Value	Description
Name	string; default: <b>none</b>	Name of a shared directory.
Path	filepath; default: <b>No mount point</b>	Path to a shared directory. To share an entire drive, choose an automatically generated path from this drop-down box (for example, /mnt/sda1). To share a specific directory on the drive, specify the full path to that directory (for example, /mnt/sda1/shared/video).
Allowed users	samba user(s); default: <b>none</b>	Samba user(s) that are permitted to access a Shared Directory. Users can be created from the Users menu tab.
Read-only	off   on; default: <b>off</b>	Makes a Shared Directory read-only, which means the directory can only be accessed to view and read files (not write).
Browseable	off   on; default: <b>on</b>	Makes a Shared Directory browsable; i.e., visible in shared directory network discovery.
Allow guests	off   on; default: <b>off</b>	Turns guest access on or off. Guest access allows anonymous connections to a Shared Directory.
Actions	Delete; default: <b>Delete</b>	Deletes a Shared Directory configuration.

To connect to the router's SAMBA server from Windows, specify the address in this format:

```
\\smb_server_address\share_name
```

Replace *smb\_server\_address* with the IP address of this device or SAMBA share hostname; replace *share\_name* with the name of the "share" (as specified in the 'Name' field). For example:

```
\\192.168.1.1\my_share  
\\Router_share\johns_files
```

## Users

---

The **Users** section is used to create Samba users that can be granted access to Shared Directories. To add a new user, enter a custom username, password and click the 'Add' button.



The newly added User should appear in the Users list. To change the password of a Samba User, click the 'Edit' button located next to it:



This will redirect you to the Settings page for that User which should look similar to this:



# DLNA

The **Digital Living Network Alliance (DLNA)** standard provides the possibility to stream media files from local storage to DLNA-capable devices such as computers, Smart TVs, tablets, etc.

This page is used to configure the DLNA service on the device. When the DLNA service is enabled, the device listens for incoming connections on the specified network interface and port number. Clients connecting to that port number on that interface will be granted access to the media files residing in the specified directories.

DLNA devices use Universal Plug and Play (UPnP) to discover and communicate with each other on a network. To access the DLNA server hosted on this device you will need a DLNA-capable application. If you're using your phone or other mobile device, simply search for DLNA in the device's application store. On Linux and Windows computers you can use applications capable of playing network media streams (such as VLC). Smart TVs and similar devices may have DLNA support built-in by default.

File format types supported by the DLNA service on this device:

- Audio - WMA, WAV, MP3, FLAC
- Image - JPEG
- Video - WMV, MTS, MP4, MKV, MOV

**Note:** DLNA is additional software that can be installed from the [System → Package Manager](#) page.

## General Settings

---



Field	Value	Description
Enable	off   on; default: <b>off</b>	Turns the DLNA service on or off.
Port	integer [0..65535]; default: <b>8200</b>	DLNA service listening port.
Friendly name	string; default: <b>Teltonika DLNA Server</b>	The name of this server as it will be displayed to clients.
Root container	Standard container   Browse directory   Music   Video   Pictures; default: <b>Standard container</b>	Specifies which type of files will be made available in DLNA file sharing. <ul style="list-style-type: none"><li>• <b>Standard container</b> - allows browsing the shared media directory but also organizes files by type (music, video, pictures).</li><li>• <b>Browse directory</b> - allows browsing the shared media directory .</li><li>• <b>Music, Video, Pictures</b> - only shares the files of the specified type.</li></ul>

Media directories	filepath(s); default: <b>/mnt</b>	<p>A list of directories that will be scanned by the DLNA service and made available to clients. You can also specify what types of files should be displayed from the directory. Use 'A' for audio, 'V' for video, 'P' for images followed by a comma and the path to the directory. For example:</p> <ul style="list-style-type: none"> <li>• <i>A,/mnt</i> - share only audio files from the <i>/mnt/sda1</i> directory.</li> <li>• <i>V,/mnt</i> - share only video files from the <i>/mnt/sda1</i> directory.</li> <li>• <i>P,/mnt</i> - share only image files from the <i>/mnt/sda1</i> directory.</li> </ul> <p>Click the plus symbol to add more directories.</p>
Album art names	filename(s); default: <b>Album.jpg</b>	Name of the file(s) to check when searching for album art images. Click the plus symbol to specify more file names.

## Advanced Settings

---

Field	Value	Description
Interfaces	network interface; default: <b>br-lan</b>	Network interface(s) on which this DLNA server will be hosted.
Enable notify	off   on; default: <b>on</b>	Turns inotify on or off. Inotify is a Linux kernel subsystem that notices changes to the filesystem and reports on these changes to applications, in this case, the DLNA service.
Enable TIVO	off   on; default: <b>off</b>	Turn support for streaming .jpg and .mp3 files to a TiVo supporting HMO on or off.
Strict to DLNA standard	off   on; default: <b>off</b>	Set this to strictly adhere to DLNA standards. Turning this on will allow server-side downscaling of very large JPEG images, which may hurt JPEG serving performance on (at least) Sony DLNA products.
Notify interval	integer; default: <b>900</b>	Notify interval in seconds.