

NAS SNR-CPE-ME1/ME2/ME2-SFP

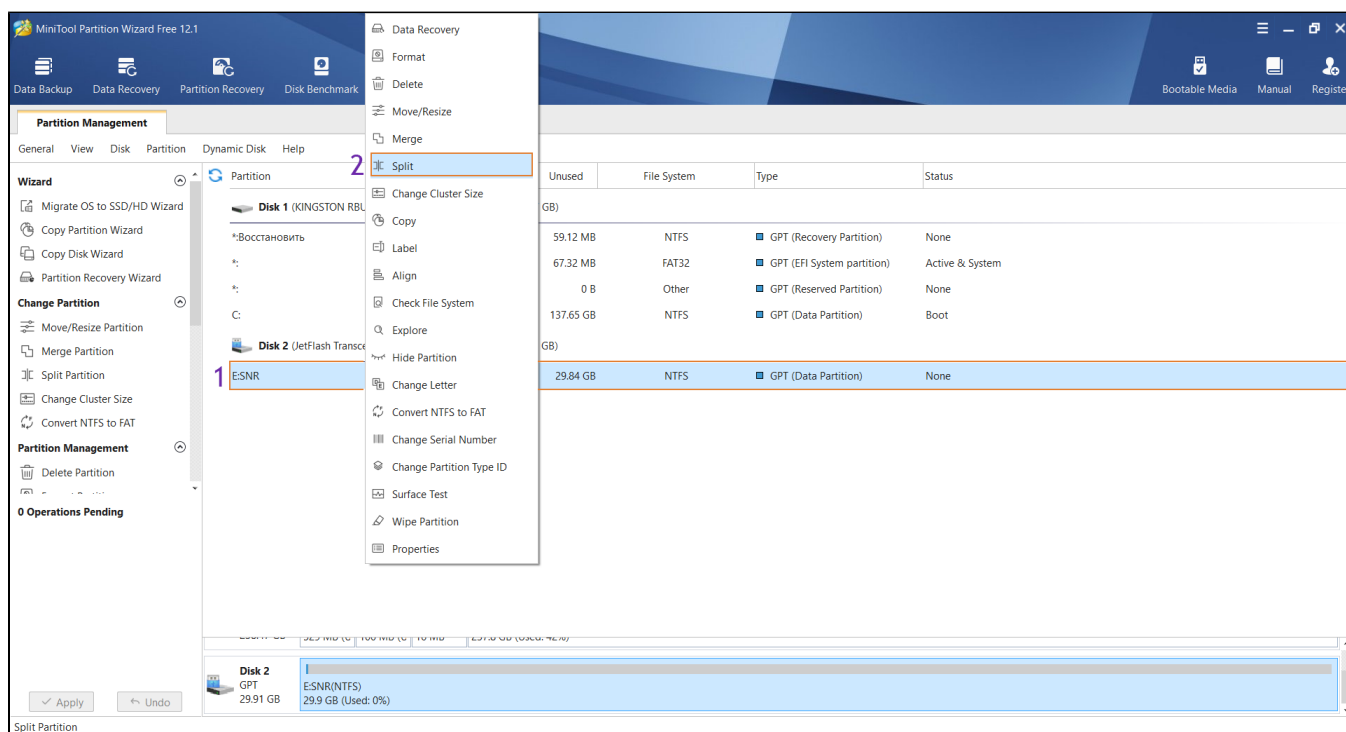
- USB SNR-CPE-ME1/ME2/ME2-SFP
- Optware
- miniDLNA

USB SNR-CPE-ME1/ME2/ME2-SFP

USB ext4 optware. Linux, Windows, MiniTool Partition Wizard.

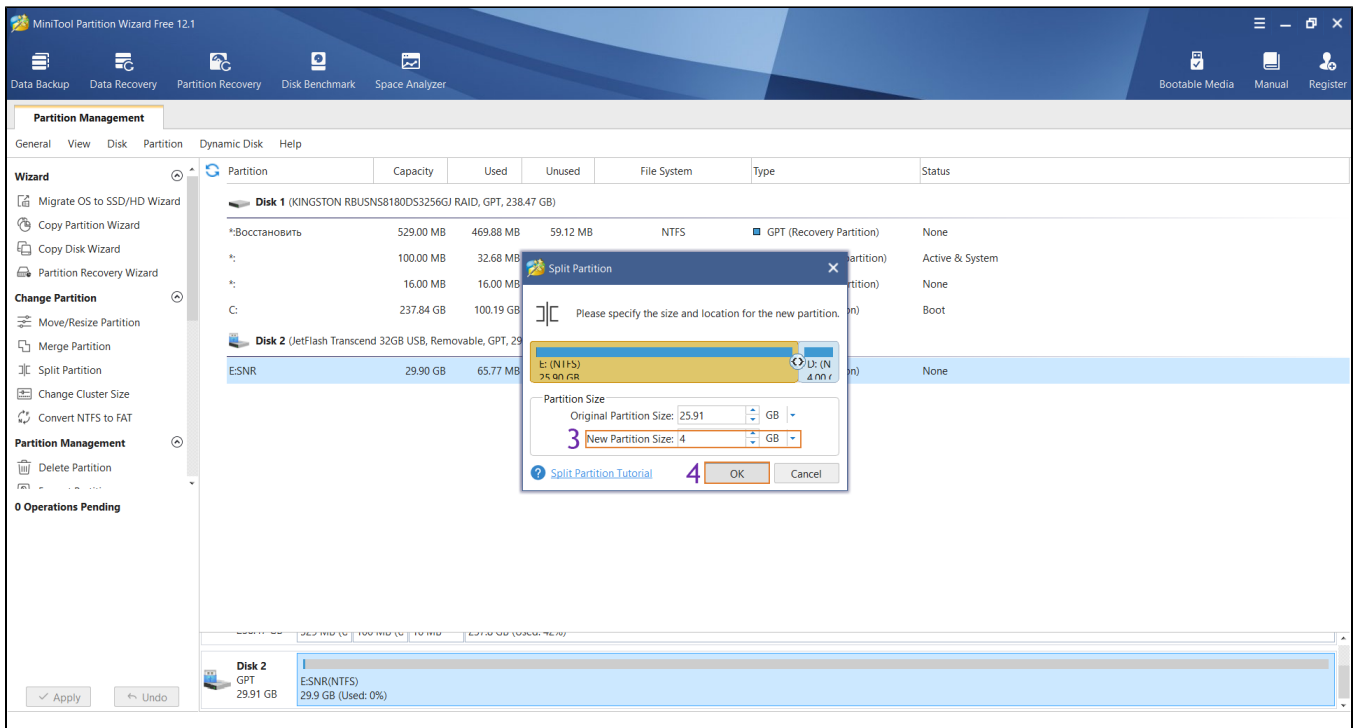
MiniTool Partition Wizard : <https://www.partitionwizard.com/>

Windows ext4 , USB , - ext4 , - NTFS , .
(1), Split(2).

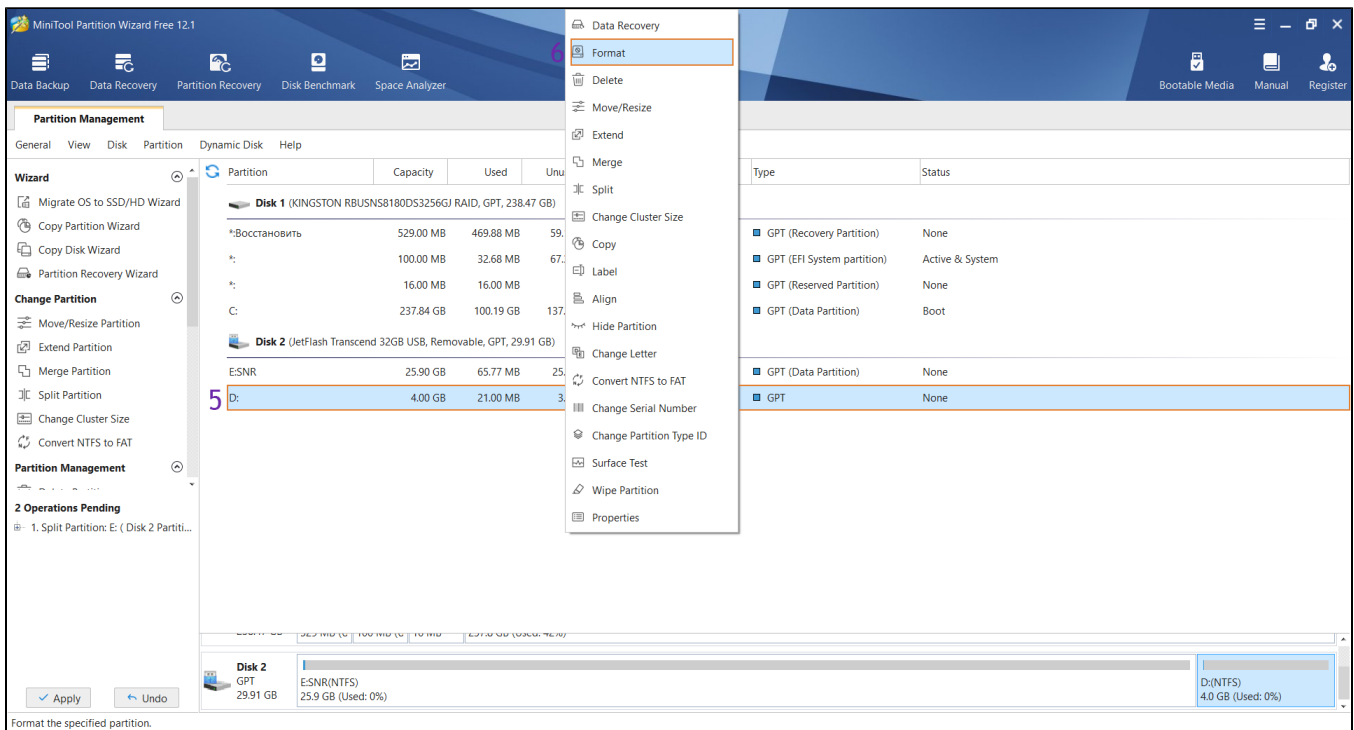


. New Partition Size(3) ext4 (4).

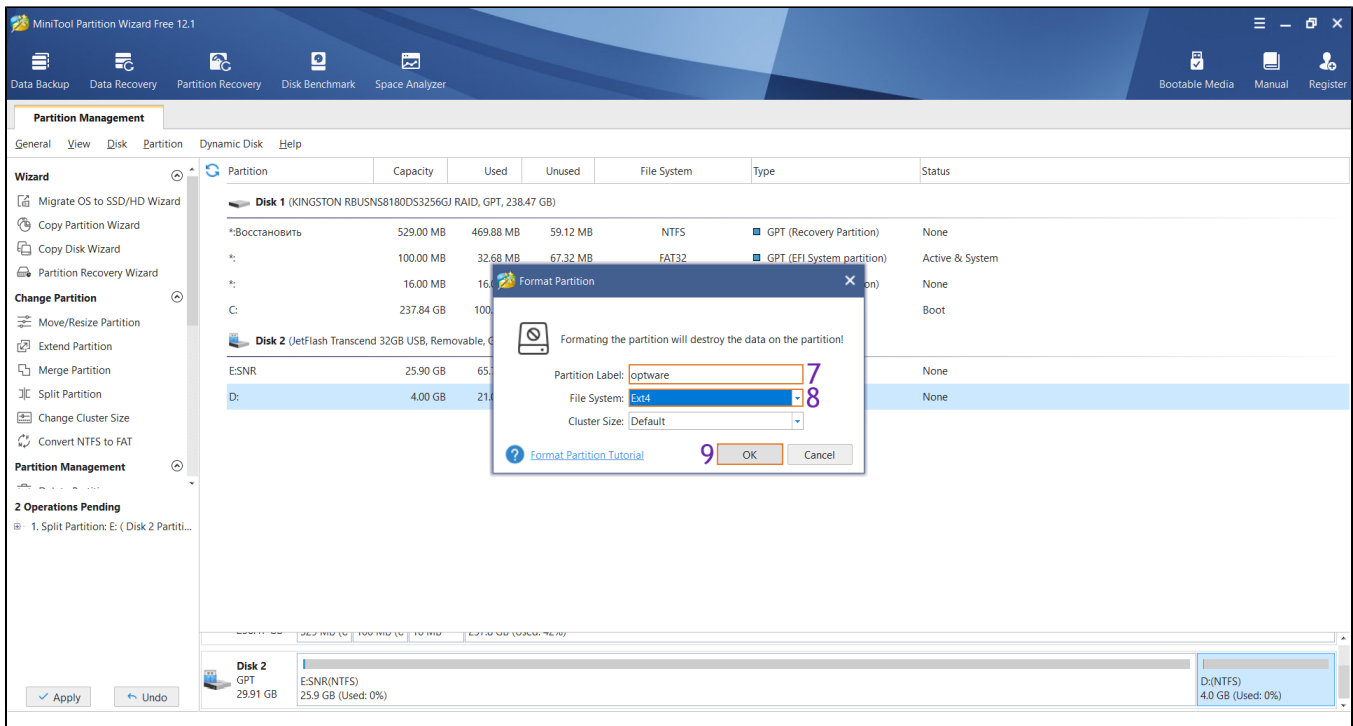
USB- 32, 4 . HDD/SSD 1, optware 1 .



ext4 (5) Format(6).



, Partition Label USB- optware(7), File System Ext4(8) OK(9), Apply



Optware

USB , SSH. **optware** . **mount | grep opt**

[SNR-CPE@/]# mount | grep opt
/dev/sda1 on /opt type ext4 (rw,noatime,data=ordered)

NAS:

[SNR-CPE@/]# ls /media/sda2
System Volume Information lg_dolby_vision_4k_demo.mp4 metallica-one-hd_265540.mp4

Entware, SSH **entware_install.sh** :

```
[SNR-CPE@/]# entware_install.sh
Connecting to bin.entware.net (104.27.176.50:80)
- 100%
| *****
| *****| 2200 0Info: Checking for prerequisites and creating folders...
:00:00 ETA
Warning: Folder /opt exists!
Info: Opkg package manager deployment...
Connecting to bin.entware.net (104.27.176.50:80)
opkg 100%
| *****
| *****| 162k 0:00:00 ETA
Connecting to bin.entware.net (104.27.177.50:80)
opkg.conf 100%
| *****
| *****| 150 0:00:00 ETA
Connecting to bin.entware.net (104.27.176.50:80)
ld-2.27.so 100%
| *****
| *****| 155k 0:00:00 ETA
```

```
Connecting to bin.entware.net (104.27.176.50:80)
libc-2.27.so 100%
|*****|1613k 0:00:00 ETA
Connecting to bin.entware.net (104.27.176.50:80)
libgcc_s.so.1 100%
|*****|95080 0:00:00 ETA
Connecting to bin.entware.net (104.27.177.50:80)
libpthread-2.27.so 100%
|*****| 116k 0:00:00 ETA
Info: Basic packages installation...
Downloading http://bin.entware.net/mipselsf-k3.4/Packages.gz
Updated list of available packages in /opt/var/opkg-lists/entware
Installing entware-opt (227000-3) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/entware-opt_227000-3_all.ipk
Installing libgcc (7.4.0-8) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libgcc_7.4.0-8_mipsel-3.4.ipk
Installing libc (2.27-8) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libc_2.27-8_mipsel-3.4.ipk
Installing libssp (7.4.0-8) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libssp_7.4.0-8_mipsel-3.4.ipk
Installing libpthread (2.27-8) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libpthread_2.27-8_mipsel-3.4.ipk
Installing librt (2.27-8) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/librt_2.27-8_mipsel-3.4.ipk
Installing libstdc++ (7.4.0-8) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libstdc++_7.4.0-8_mipsel-3.4.ipk
Installing entware-release (1.0-2) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/entware-release_1.0-2_all.ipk
Installing zoneinfo-asia (2018i-1) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/zoneinfo-asia_2018i-1_mipsel-3.4.ipk
Installing zoneinfo-europe (2018i-1) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/zoneinfo-europe_2018i-1_mipsel-3.4.ipk
Installing findutils (4.6.0-3) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/findutils_4.6.0-3_mipsel-3.4.ipk
Installing terminfo (6.1-3) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/terminfo_6.1-3_mipsel-3.4.ipk
Installing libpcre (8.42-2) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libpcre_8.42-2_mipsel-3.4.ipk
Installing grep (3.3-1) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/grep_3.3-1_mipsel-3.4.ipk
Installing locales (2.27-8) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/locales_2.27-8_mipsel-3.4.ipk
Installing opkg (2019-01-31-d4ba162b-1) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/opkg_2019-01-31-d4ba162b-1_mipsel-3.4.ipk
Installing entware-upgrade (1.0-1) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/entware-upgrade_1.0-1_all.ipk
Configuring libgcc.
Configuring libc.
Configuring libssp.
Configuring libpthread.
Configuring librt.
Configuring terminfo.
Configuring libpcre.
Configuring grep.
Configuring locales.
Entware uses separate locale-archive file independent from main system
Creating locale archive - /opt/usr/lib/locale/locale-archive
Adding en_EN.UTF-8
Adding ru_RU.UTF-8
You can download locale sources from http://pkg.entware.net/sources/i18n_glib227.tar.gz
You can add new locales to Entware using /opt/bin/localedef.new
Configuring entware-upgrade.
Upgrade operations are not required
Configuring opkg.
Configuring zoneinfo-europe.
Configuring zoneinfo-asia.
Configuring libstdc++.
Configuring entware-release.
```

```
Configuring findutils.
Configuring entware-opt.
Info: Congratulations!
Info: If there are no errors above then Entware was successfully initialized.
Info: Add /opt/bin & /opt/sbin to your PATH variable
Info: Add '/opt/etc/init.d/rc.unslung start' to startup script for Entware services to start
Info: Found a Bug? Please report at https://github.com/Entware/Entware/issues
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!NEED REBOOT DEVICE BEFORE USE!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

fs save && reboot



[SNR-CPE@/]# fs save && reboot
Save curent date and current time to rwfs
Compress config files
tar: removing leading '/' from member names
Write RW-FS to flash (168kB of 1024kB)
Unlocking RW-FS ...
Writing from /tmp/tgzfs to RW-FS ... [w]
Config saved. OK.

, optware .

SSH .

miniDLNA

minidlna opkg install minidlna



```
[SNR-CPE@/]# opkg install minidlna
Installing minidlna (1.2.1-4) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/minidlna\_1.2.1-4\_mipsel-3.4.ipk
Installing libexif (0.6.21-1) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libexif\_0.6.21-1\_mipsel-3.4.ipk
Installing libjpeg (9c-1) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libjpeg\_9c-1\_mipsel-3.4.ipk
Installing zlib (1.2.11-2) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/zlib\_1.2.11-2\_mipsel-3.4.ipk
Installing libsqlite3 (3260000-3) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libsqlite3\_3260000-3\_mipsel-3.4.ipk
Installing libid3tag (0.15.1b-4) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libid3tag\_0.15.1b-4\_mipsel-3.4.ipk
Installing libflac (1.3.2-2) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libflac\_1.3.2-2\_mipsel-3.4.ipk
Installing libogg (1.3.3-1) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libogg\_1.3.3-1\_mipsel-3.4.ipk
Installing libvorbis (1.3.6-1) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libvorbis\_1.3.6-1\_mipsel-3.4.ipk
Installing libuuid (2.33-2) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libuuid\_2.33-2\_mipsel-3.4.ipk
Installing libbz2 (1.0.6-5) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libbz2\_1.0.6-5\_mipsel-3.4.ipk
Installing alsa-lib (1.1.8-1) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/alsa-lib\_1.1.8-1\_mipsel-3.4.ipk
Installing libopus (1.3-1) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libopus\_1.3-1\_mipsel-3.4.ipk
Installing shine (3.1.1-1) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/shine\_3.1.1-1\_mipsel-3.4.ipk
Installing libx264 (snapshot-20181006-2245-1) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libx264\_snapshot-20181006-2245-1\_mipsel-3.4.ipk
Installing libffmpeg-full (3.4.5-1) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libffmpeg-full\_3.4.5-1\_mipsel-3.4.ipk
Installing libpng (1.6.36-1) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libpng\_1.6.36-1\_mipsel-3.4.ipk
Installing libffmpeghumbnailer (2.2.0-1) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libffmpeghumbnailer\_2.2.0-1\_mipsel-3.4.ipk
Installing libopenssl (1.1.1a-2) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libopenssl\_1.1.1a-2\_mipsel-3.4.ipk
Installing libopusfile (0.11-1) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libopusfile\_0.11-1\_mipsel-3.4.ipk
Installing libiconv-full (1.11.1-4) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libiconv-full\_1.11.1-4\_mipsel-3.4.ipk
Installing libintl-full (0.19.8.1-2) to root...
Downloading http://bin.entware.net/mipselsf-k3.4/libintl-full\_0.19.8.1-2\_mipsel-3.4.ipk
Configuring zlib.
Configuring libbz2.
Configuring alsa-lib.
Configuring libopus.
Configuring shine.
Configuring libx264.
Configuring libffmpeg-full.
Configuring libpng.
Configuring libjpeg.
Configuring libffmpeghumbnailer.
Configuring libogg.
Configuring libexif.
Configuring libflac.
Configuring libiconv-full.
Configuring libopenssl.
Configuring libopusfile.
Configuring libvorbis.
Configuring libuuid.
Configuring libintl-full.
Configuring libsqlite3.
Configuring libid3tag.
Configuring minidlna.
[SNR-CPE@/]#
```

/opt/

miniDLNA. SSH vi, minidlna.conf, vi /opt/etc/minidlna.conf

FAQ vi:



```
"Insert"
"Escape"
"Escape", ":w" "Enter"
"Escape", ":wq" "Enter"
```

minidlna.conf :



```
# port for HTTP (descriptions, SOAP, media transfer) traffic // Web- minidlna,
port=8200

# specify the user account name or uid to run as // , Admin
user=Admin

# network interfaces to serve, comma delimited // , br0
network_interface=br0

# set this to the directory you want scanned.
# * if you want multiple directories, you can have multiple media_dir= lines
# * if you want to restrict a media_dir to specific content types, you
# can prepend the types, followed by a comma, to the directory:
# + "A" for audio (eg. media_dir=A,/home/jmaggard/Music)
# + "V" for video (eg. media_dir=V,/home/jmaggard/Videos)
# + "P" for images (eg. media_dir=P,/home/jmaggard/Pictures)
# + "PV" for pictures and video (eg. media_dir=PV,/home/jmaggard/digital_camera)
media_dir=/media/sda2 // usb , (-) ( )

# set this if you want to customize the name that shows up on your clients // DLNA , , SNR-CPE DLNA Server
friendly_name=SNR-CPE DLNA Server

# notify interval in seconds. default is 895 seconds. // , 900 (15 ).
notify_interval=900
```

, , **reboot**

SSH , , :



```
[SNR-CPE@/]# ps | grep minidlna
5082 daemon 44244 S minidlna -f /opt/etc/minidlna.conf
5731 daemon 6004 S grep minidlna
```

! 8200, " " - " " , minidlna:



Unknown Attachment

http://192.168.1.1:8200/ , :

MiniDLNA status

Media library

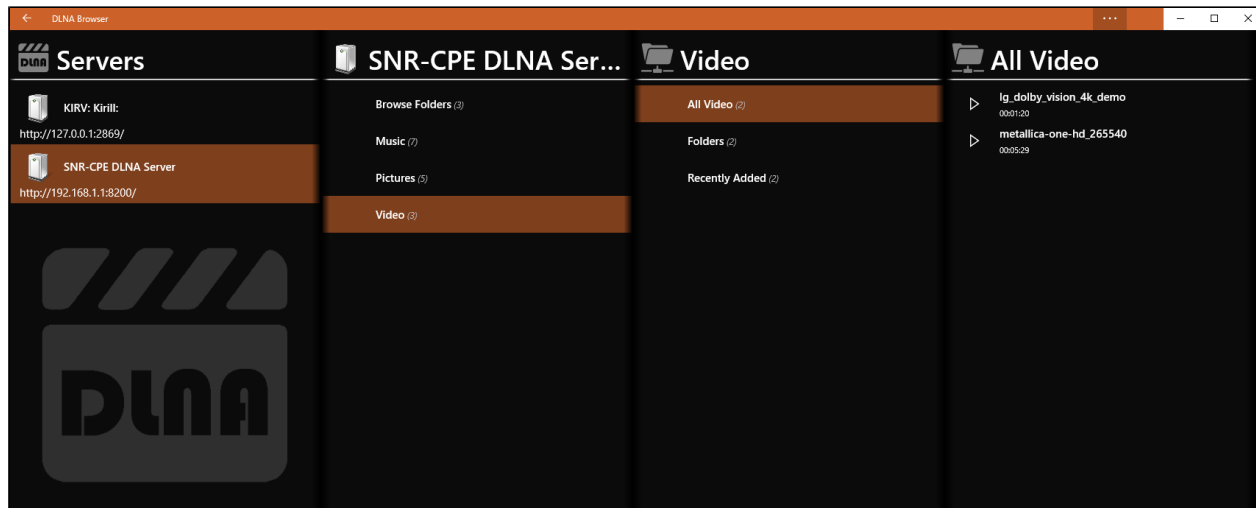
Audio files	0
Video files	2
Image files	0

Connected clients

ID	Type	IP Address	HW Address	Connections
0	Generic UPnP 1.0	192.168.1.150	00:E0:4B:D3:E3:54	0

0 connections currently open

, miniDLNA , DLNA . DLNA Browser, :



? Unknown Attachment

, , miniDLNA : /opt/etc/init.d/S90minidlna restart/stop/start.