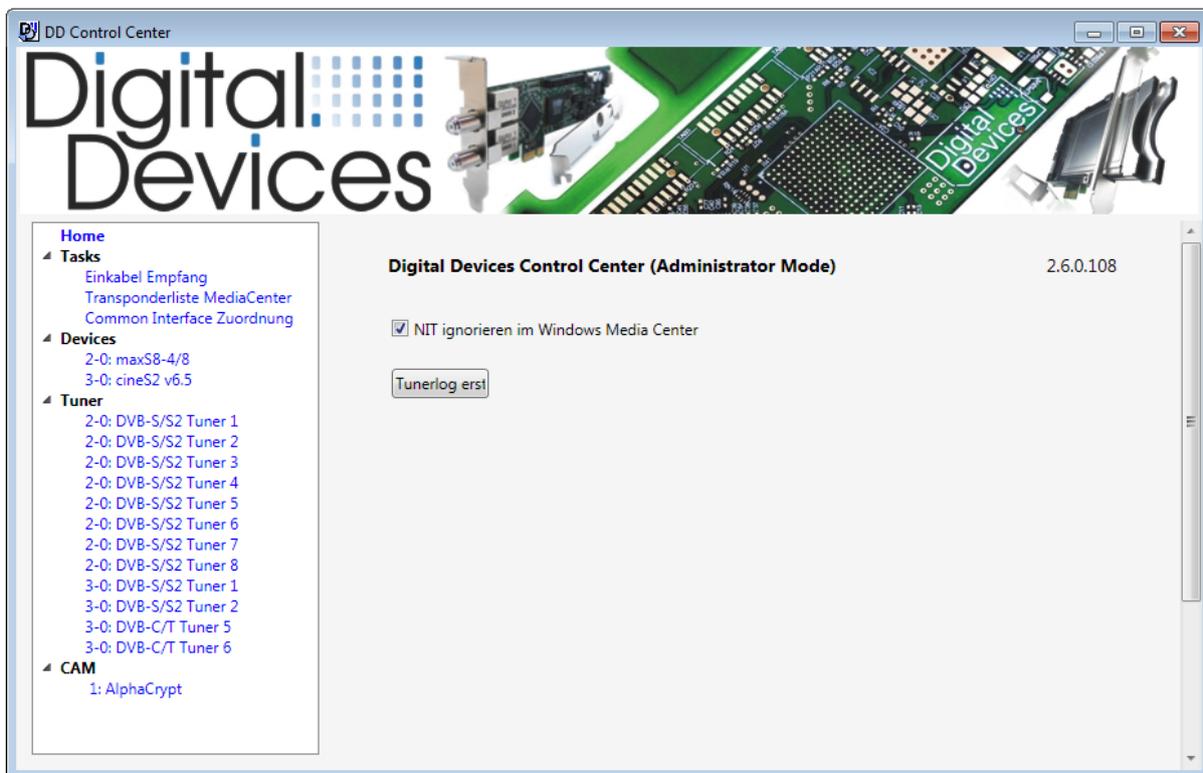


Manual for Digital Devices Control Center



From Driver Version 2.7.0.108

Contents

1	Start of DD Control Center	3
2	Menu structure in DD Control Center	4
2.1	Home Menu	5
2.1.1	Driver Version	5
2.1.2	Ignore NIT in Windows® Media Center	5
2.1.3	Create TunerLog.....	5
2.2	Tasks	5
2.2.1	Single-Cable Reception - (Only for DVB-S/S2 reception)	6
2.2.2	Transponderlists Windows® Media Center (Only DVB-S/S2 and DVB-C/C2)	7
2.2.3	Common Interface assignment (only if CI interface available)	9
2.3	Devices	9
2.4	Max S8 (4/8 Tuner)	10
2.4.1	Quad LNB or 4 Multiswitch Outputs	10
2.4.2	Quattro LNB or Multiswitch cascade output (VL, VH, HL, HH)	10
2.4.3	Single cable system according DIN 50494/50607	11
2.5	Tuner	12
2.5.1	Tuner Type DVB-C/C2 (Cine and DuoFlex Serie).....	12
2.5.2	Tuner Typ DVB-S/S2 (Cine and DuoFlex Serie)	12
2.5.3	Tuner Typ DVB-S/S2 (Max S8 Serie).....	12
2.6	CAM	14
3	Digital Devices.....	15
3.1	Produktportfolio.....	15
3.2	Serviceinformationen	16
4	Notizen	17

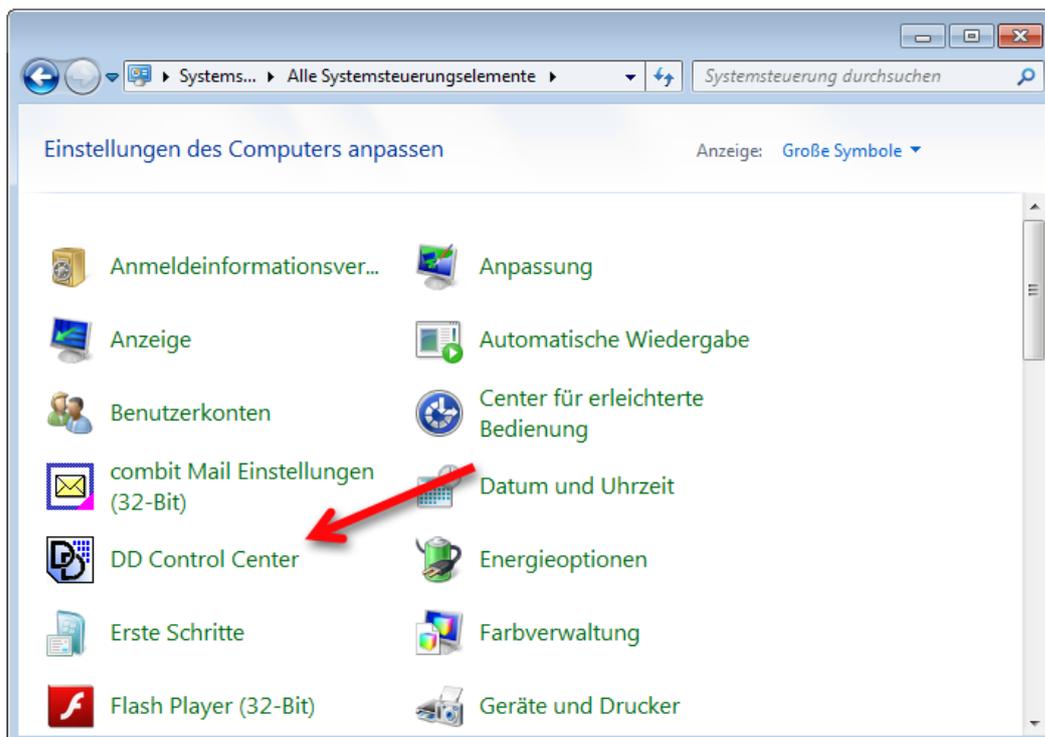
1 Start of DD Control Center

Start on your Windows® PC the Control Panel.



Select under „display“ the option „Large symbols“ or „Small symbols“.

The overview of the Control Panel is now changing and it shows all available functions.



Under the entry DD Control Center, you can start this by clicking on the entry.

» Note: The program group "Digital Devices" no longer exists. The driver installation creates a link of the Control Center exclusively in the Control Panel. Was during the installation

not selected the default directory, a start of the Control Center is only possible from the installation folder.

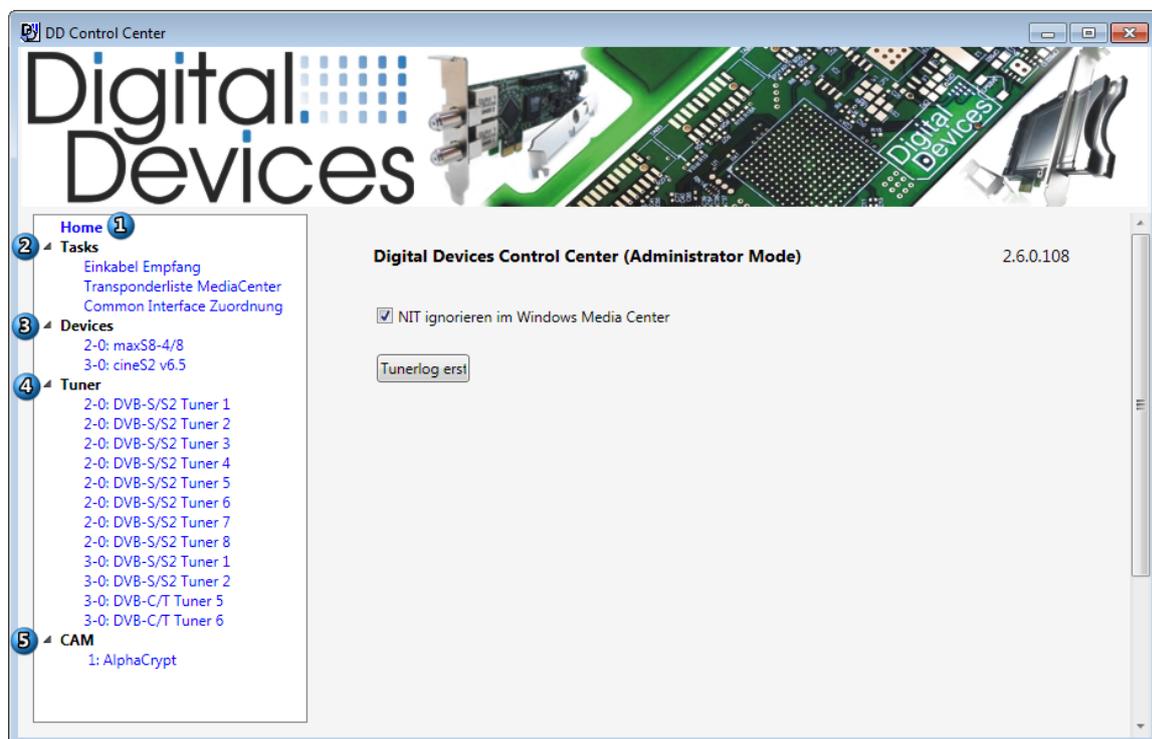
» *Tip:* You can create a shortcut of the „**DD Control Centers**“ to your Desktop, if you make a right-click on the entry and choose „**Create Shortcut**“. In next you find a Shortcut on your Windows® Desktop

2 Menu structure in DD Control Center

From the Control Center, you have access to central settings of your digital devices product.

An exception is the Octopus NET (Network Tuner), the configuration of the network tuner you can make via the web interface of your Octopus NET and Octopus Cast tool.

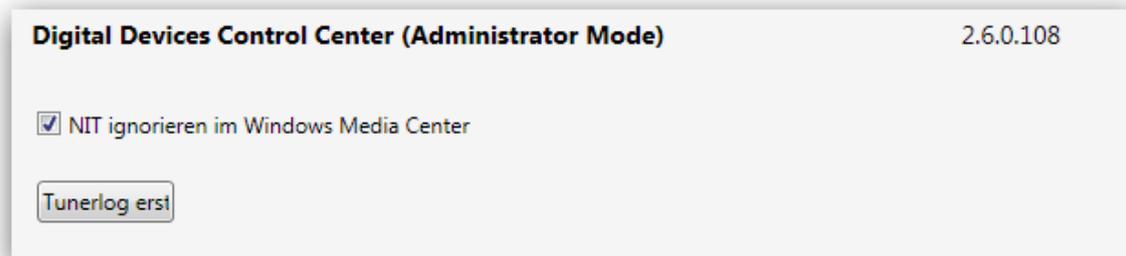
Depending on the type of card, you will have different device options.



1. **Home:** The home screen displays basic information / configuration options.
2. **Tasks:** Depending on the installed hardware, different configuration options for the appropriate type of hardware are available here.
3. **Devices:** Shows a list of detected Digital Devices Hardware in the system and offers hardware-specific settings.
4. **Tuner:** Displays a list of available tuners of your Digital Devices Hardware and provides for the tuner type specific settings.
5. **CAM:** Displays a list of in system available CA-Modules (CAM) and the possibility to access the CA menus of each module.

»Note: All settings must be saved using the " Save " button. When you exit the Control Center may be necessary to restart the PC, about this you will be informed when you exit the Control Center.

2.1 Home Menu



The home screen displays basic information / configuration options.

2.1.1 Driver Version

The current driver version can be found in the upper right corner.

2.1.2 Ignore NIT in Windows Media Center

If you want to use a Digital Devices card for the reception of DVB-C in Windows® Media Center, select the check box for this setting to prevent problems with the reception of DVB-C channels. Also enable this setting for Digital Devices **Max series (Max S8)** if you want to use this in WMC.

2.1.3 Create TunerLog

Created a Log from the last 7 days over the activities of Digital Devices hardware. Here, among others, the signal values for each tune processes are shown. If you have problems with your hardware this log is also used for analysis.

2.2 Tasks

Depending on the installed hardware, different configuration options for the appropriate type of hardware are available here.

2.2.1 Single-Cable Reception - (Only for DVB-S/S2 reception)

If you use a Digital Devices TV card for the reception of DVB-S/S2 (except Max S8), you can configure the settings for single-cable reception according to EN50494 and EN50607 here.

Select "Normal mode" if you use a standard SAT system / wiring.

If you are using a single-cable reception system according to EN50494 or EN50607, select the option "single cable reception according to DIN 50494/50607".

Tuner	Slot
3-0: DVB-S/S2 Tuner 1	1
3-0: DVB-S/S2 Tuner 2	2

Select under „**Select Manufacturer**“ the manufacturer of your LNB or Multiswitch. Subsequent

In next select under "**LNB/multiswitch selection**" your model. If your manufacturer or model is not in the list, you can select a different model, if it uses the same frequencies and is not pin Protected, or select the option "**Other Manufacturers**" from the drop down box.

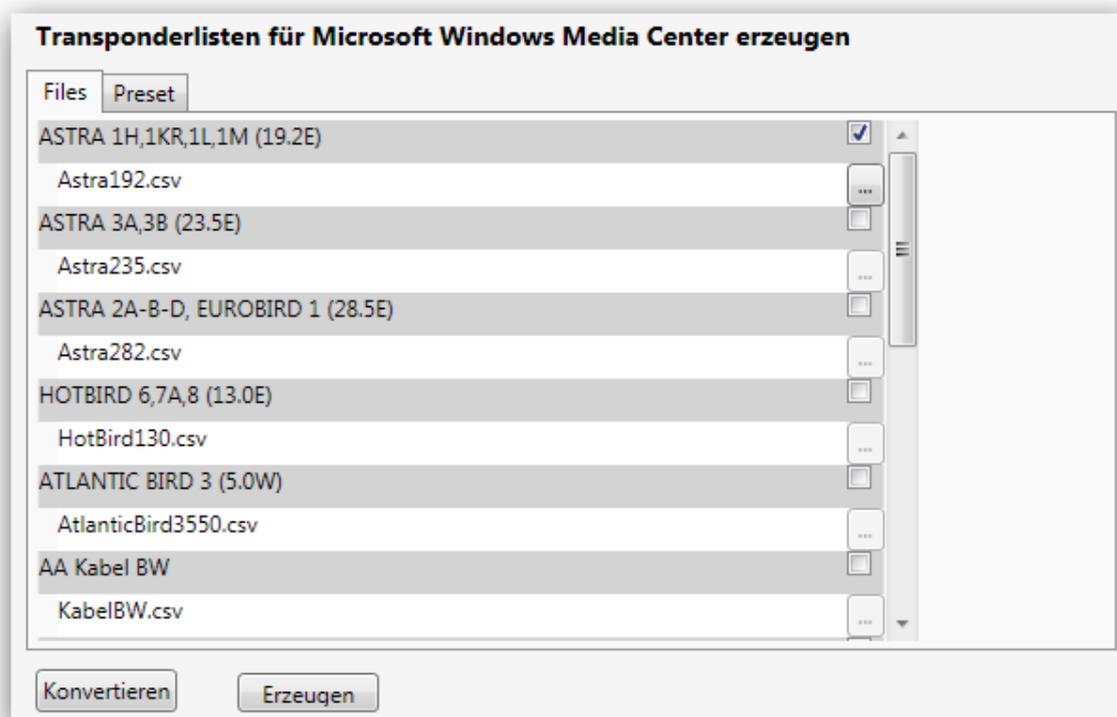
All tuners that can be configured for single-cable reception will be listed, under "**Tuner**". Over "**Slot**" you can assign the appropriate frequencies for each tuner.

»Note: Single cable reception systems are known by names like: Unicable® - UniCable II® Jess® - SCR (Single Cable Routing) - single-cable solution. If your single-cable multiswitch / LNB have a

“pin protected” option, you must enter the PIN for the appropriate frequency. This option is available only if your multiswitch or LNB has the “Pin Protected” option. Usually the PIN defined by the LNB or Multiswitch and can be found in the user guide.

2.2.2 Transponderlists Windows® Media Center (Only DVB-S/S2 and DVB-C/C2)

If you have installed on your Windows® PC (from Windows® 7 or Windows® Vista with TV Pack (Fiji)), a Windows® Media Center, this option is available.



Here you have the possibility to load transponderlists, for the reception types DVB-S/S2 and DVB-C/C2 in Windows® Media Center. Select the list(s) for your reception under the tab **“Files”**. Afterwards you can choose under the tab **“Preset”** predefined Channellists. You can select one or more Lists for uploading in Windows® Media Center.

How can you create a predefined channel list, please refer to the next section. If no list is selected, then the PresetDE list or the corresponding region of the preset list is used. In this list a preselect of most channels has already been done. If you want to use a modified list, you can use it by adding it to the list. You can also use multiple self-created lists, this may not overlap only in the channel numbers.

Click based on your choice on the **“Create”** button. After that the tab **“Load”** is available. Click in this tab on the button **„Load“** for uploading the list to Windows® Media Center

You have the ability to create pre-defined channel lists. If you would no changes the lists, the originals lists, which are enclosed with the driver, will used. Here is already a presort with the most important Channels. Examples of pre-defined channel lists can be found in your Programs folder under **“Digital Devices\DVB-Utils”**.

These files are:

- PresetDE.csv - includes the standard channels in the region: Germany.
- PresetAT.csv - includes the standard channels in the region: Germany Austria.
- PresetCH.csv - includes the standard channels in the region: Switzerland.
- PresetNL.csv - includes the standard channels in the region: Netherland.
- PresetFR.csv - includes the standard channels in the region: France.
- PresetRadio.csv - includes the standard radio channels.
- PresetSkyGermany.csv - includes the standard channels for SKY TV (Germany).

These lists can be edited using a spreadsheet such as Open Office Calc, or in a text editor.

To change the channel order, change its number value.

Ensure that no channel is entered more than once, as this could lead to problems later in Windows® Media Center. After editing the file, it must be saved in UTF8 format.

As an alternative to editing manually in a editor, please refer to the Download Page and load the tool called "DD channel sorter", which provides a simpler means of sorting / rebuilding the channel lists. Also a direct upload to Windows® Media Center is possible from the Channel sorter.

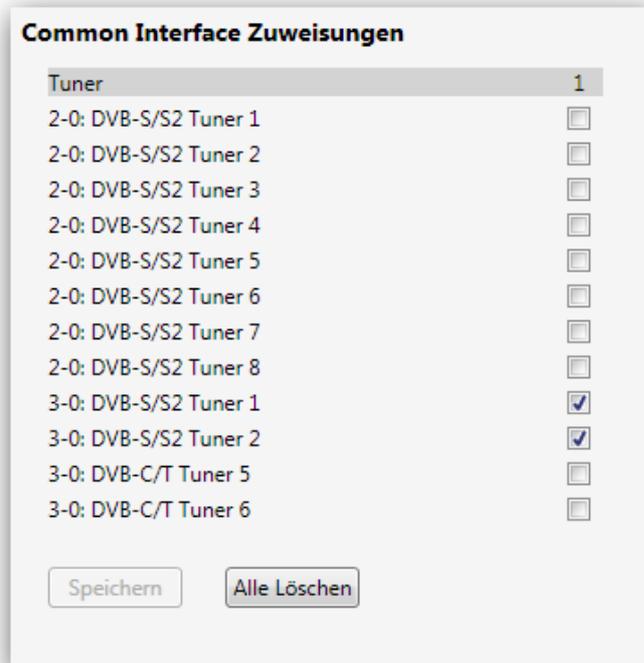
The remaining files in the directory, for example, "Astra192.csv" are not channel lists. These files contain frequency information and should not normally be changed. When the frequency of a channel is changed the channel data can be edited in these files.

»Note: For simple design of these lists you can also use our channel sorter. You can also get via online update regularly updated transponder lists.

»Note: To set up DVB-C / C2 cards do not use the Microsoft® Windows® Media Center internal DVB-C lists, because the Windows® Media Center is not compatible with the European DVB-C / C2 signal. Setting up DVB-C / C2 cards in Windows® Media Center takes place as DVB-S / S2 cards (satellite). For this the DVB-C WMC mode must be set for each tuner. If you not have a transponderlist for your provider, you can choose the List "AA Cable all (6900,Germany)" for frequencies with a symbolrate of 6900 or the list "AA Cable all (6111/6875, CCIR)" for frequencies with a symbolrate of 6875 or 6111. If you use this lists, you must make a "Complete Satellite Transponder scanning" in Windows® Media Center, after the Signal Setup.

2.2.3 Common Interface assignment (only if CI interface available)

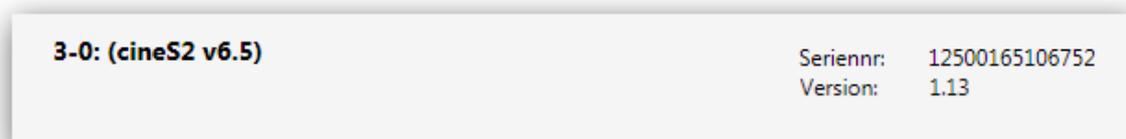
With this function, you can assign a in the system existing CI module to the tuners. Supports your used CAM "MTD technology", you can assign the CAM several tuners. Maximum can be assigned up to four tuners for one CI.



2.3 Devices

Shows a list of detected Digital Devices Hardware in the system and offers hardware-specific settings.

Select a sub-entry to find out more information about the device.



2.4 Max S8 (4/8 Tuner)

Is in your system a Max S8 (4/8) tuner card installed, here are the configuration options (selecting the operating mode) are available.

2-0: Max maxS8-4/8 Seriennr: -
Version: 1.0

Quad LNB oder 4 Multiswitch Ausgänge

Quattro LNB oder Multiswitch Kaskaden Ausgang (VL,VH,HL,HH)

Einkabel System nach DIN 50494/50607

2.4.1 Quad LNB or 4 Multiswitch Outputs

Use this option if you want to connect your Max S8 to a normal multiswitch or LNB with integrated multi-switch (QUAD LNB or OCTO LNB). For both cases, four SAT lines are required to provide a full-featured and full reception (all four levels SAT).

2.4.2 Quattro LNB or Multiswitch cascade output (VL, VH, HL, HH)

Use this option if you want to connect your Max S8 to a multi-switch, which can be cascaded. Such multi-switch have in addition to the inputs for a Quattro LNB, four outputs which are also known as "cascade outputs". These outputs give only from a Quattro LNB received signals unaltered out again. Alternatively, the four outputs can be directly used by a Quattro LNB without multiswitch.

»Note: A "Quad LNB" are called LNBs, which provide an integrated multi-switch with four outputs for a direct connection to receivers. No external multiswitch is needed. Octo LNBs offer instead of 4 outputs a total of 8 outputs with the same engineering.

Quattro LNBs other hand, have no integrated multiswitch. These LNBs offer only the SAT levels (V/L V/H H/L H/H), which must connected to an external multiswitch.

2.4.3 Single cable system according DIN 50494/50607

Enable this option if you want to use a Max S8 for the reception at a single cable system. The settings for single-cable reception systems according to EN50494 and EN50607 are configured for the Max S8 exclusively in this menu. (The menu item "**Tasks -> Single cable reception**" is not to be used for the Max S8.)

2-0: Max maxS8-4/8 Seriennr: -
Version: 1.0

Quad LNB oder 4 Multiswitch Ausgänge
 Quattro LNB oder Multiswitch Kaskaden Ausgang (VL,VH,HL,HH)
 Einkabel System nach DIN 50494/50607

Hersteller Auswahl: DCT DELTA Speichern

LNB/Multiswitcher Auswahl: SUM 918

Tuner	Slot
2-0: DVB-S/S2 Tuner 1	1
2-0: DVB-S/S2 Tuner 2	2
2-0: DVB-S/S2 Tuner 3	3
2-0: DVB-S/S2 Tuner 4	4
2-0: DVB-S/S2 Tuner 5	5
2-0: DVB-S/S2 Tuner 6	6
2-0: DVB-S/S2 Tuner 7	7
2-0: DVB-S/S2 Tuner 8	8

Select under „**Select Manufacturer**“ the manufacturer of your LNB or Multiswitch. Subsequent

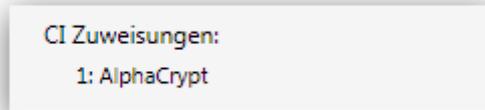
In next select under "**LNB/multiswitch selection**" your model. If your manufacturer or model is not in the list, you can select a different model, if it uses the same frequencies and is not pin Protected, or select the option "**Other Manufacturers**" from the drop down box.

All tuners that can be configured for single-cable reception will be listed, under "**Tuner**". Over "**Slot**" you can assign the appropriate frequencies for each tuner.

»Note: Single cable reception systems are known by names like: Unicable® - UniCable II® Jess® - SCR (Single Cable Routing) - single-cable solution. If your single-cable multiswitch / LNB have a "pin protected" option, you must enter the PIN for the appropriate frequency. This option is available only if your multiswitch or LNB has the "Pin Protected" option. Usually the PIN defined by the LNB or Multiswitch and can be found in the user guide.

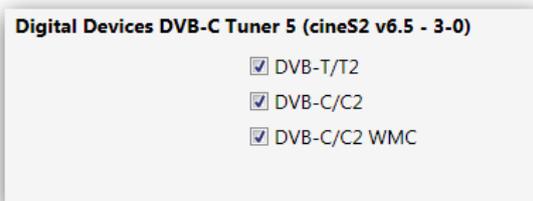
2.5 Tuner

Shows a list of detected Digital Devices Hardware in the system and offers hardware-specific settings. When the tuner is assigned to a CI, the CI assignment is displayed.



2.5.1 Tuner Type DVB-C/C2 (Cine and DuoFlex Serie)

The following options are available for this type of tuner:



- **DVB-T/T2:** Identifies the tuner for use as DVB-T/T2 (terrestrial)
- **DVB-C/C2:** Identifies the tuner for use as a DVB-C/C2 (cable)
- **DVB-C/C2 WMC:** Identifies the tuner for use as a DVB-S / S2 (satellite) for use in Windows® Media Center

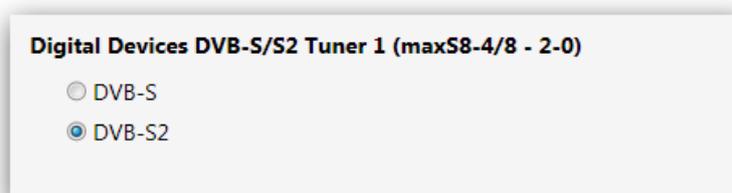
There is also a combination of multiple options for the use of different operating modes with different types of reception or programs on a tuner possible, (eg for simultaneous use in DVbViewer® and Windows® Media Center). If the "**DVB-C / C2**" and "**DVB-C / C2 WMC**" options activated, different applications can't simultaneously access a tuner if it is already in use. Depending on which and how many modes are selected, are different tuners shown in the TV applications.

2.5.2 Tuner Typ DVB-S/S2 (Cine and DuoFlex Serie)

There are no options for this tuner type available. If the tuner CI Assigned, the assignment will be displayed.

2.5.3 Tuner Typ DVB-S/S2 (Max S8 Serie)

The following options are available for this type of tuner:



Some programs (such as Windows® Media Center) does not automatically detect whether it is the received transponder type is DVB-S or DVB-S2. In this rare case, the tuner can be switched to the appropriate operating mode "**DVB-S**" or "**DVB-S2**".

2.5.3.1.1 Use of DVB-S and DVB-S2 in Windows® Media Center

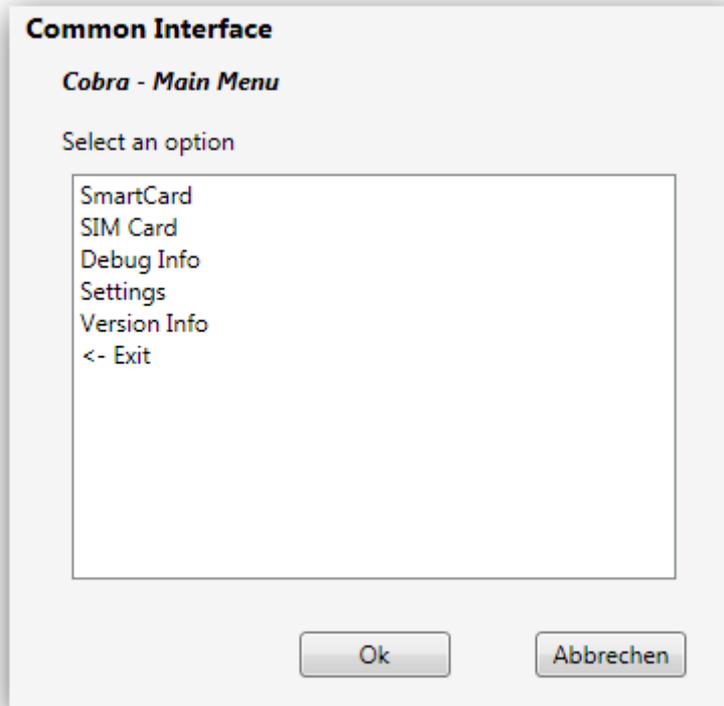
If you want to use your Max S8 card in Windows® Media Center, you must apply for both reception formats simultaneously, the following workaround:

- Set the operating mode for all tuners of the MaxS8 to "**DVB-S**"
- In the Home menu, select "**Ignore NIT Lists in Windows® Media Center**"
- Load as normal your transponder list in Windows® Media Center, using the "**Control Center**" or the "**DD channel sorter for Windows® Media Center**".
- Save the settings and close the DD Control Center (reboot may be required)
- Walk through the "TV signal setup" in the WMC and setup TV signal.
- Run after Setup under „Task -> Settings -> TV -> TV signal -> Satellite transponder scanning – a "Complete transponder scan".
- Afterwards start the DD Control Center again.
- Set the operating mode for all tuners of the MaxS8 to „**DVB-S2**“
- Save the settings and close the DD Control Center (reboot may be required)
- The setup for Windows® Media Center is now complete. Should there problems occurs, run once a complete transponder scan in Windows® Media Center, with the setting for all tuners on "**DVB-S2**".

»Note: During the search, other channels may be found. These channels will be appended by Windows® Media Center at the end of your channel list. It is also possible the encrypted channels are disabled in Windows® Media Center, they must subsequently on Tasks -> Settings -> TV -> TV program -> Edit Channels - are re-enabled with the appropriate check box in front of the channel name.

2.6 CAM

Shows a list of available CA modules (CAM) in the system and the possibility to access the CAM menu of each module.



3 Digital Devices

Digital Devices was founded in 2009 and is now a "GmbH" under German law. Digital Devices GmbH has been profitable since the first fiscal year. The company consists of a team of owners (Engineers) and covers a broad product range of products primarily in the DVB area and other related products.

Competence and development skills:

- Hardware design, 3D Designs
- Software development (Windows®- and Linux Driver)
- DVB-Technology
- programmable Logic (FPGA)
- HF-Technic

The focus of the designs is the seamless functionality between all Digital Devices products.

3.1 Produktportfolio

Digital Devices launched its first DVB products in 2009 (satellite and cable/terrestrial) and added a Common Interface shortly after that. The portfolio has been expanded to a range of Tuner modules, bridges and DVB related products. Digital Devices has become a leading provider for embedded tuners in the PC market.

Digital Devices Product portfolio:

- Standard DVB cards, Common Interfaces and Bridge modules (Windows® and Linux)
- Headend devices
- PC mainboards
- Surveillance cameras and –systems

The DuoFlex series complements the Cine series by Twin Tuner extensions via ribbon cable (no additional PCIe slot required), especially in compact environments. The DuoFlex series is also available as an extension for the Octopus series.

The Octopus series offers numerous opportunities for special TV tuner environments for hobby but also especially for business solutions. Combinations with CI extensions and external solutions are an example of the flexible modular combining ability in our DVB-portfolio for the PC market.

Explore the world of Digital Devices under www.digitaldevices.de

3.2 Serviceinformationen

In service cases, please contact our support at support.digital-devices.de. You can also reach us by phone and email.

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