

advoli TM

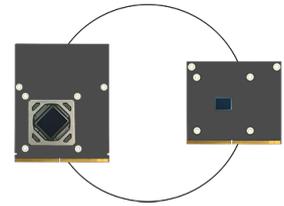


ADVOLI™ TA6 GRAPHICS CARD INSTALLATION GUIDE

HDBaseT™ Certified Product

Modular

HDBase™ Certified Modular Graphics Card capable of using both Type A and Type B MXMs following the MXM spec 3.0 / 3.1



Emulated Controls

Graphics Card with Emulated CEC, RS232 and IR giving you the IOT power over your displays/projectors for remote access and control

Pass Through IR

Pass through IR via two 4-pin 3.5 mm phone jacks for IR in and IR out sending the IR signal up to a distance of 150 m per hop



Diagnostics

Built in cable diagnostics: cable distance, signal integrity for each twisted pair on the CAT cable and environmental diagnostics

6 x 4K over a distance of 100 meters

Using the power of HDBase™ one advoli™ TA6 graphics card can send six different 4K videos at a distance of 100 meters per hop



A MODULAR VIDEO CARD FOR LONG DISTANCES

The advoli™ TA6 is designed for audiovisual installations requiring long distances between server and displays/projectors for the following market segments:

KEY MARKETS

Education	Corporate Enterprise	Hospitality & Retail	Healthcare
Cultural & Event Centers	Large Home Installations	Broadcast	Government
House of Worship	Aerospace & Defense		

During the design process we wanted to ensure we designed something completely different to the existing market. Rather than competing in the vertical segment of processor speeds, we saw a large missing horizontal segment of functionality of graphics cards for audiovisual installations. We set out to develop a new type of graphics card with the following benefits:

KEY BENEFITS

Modular	Compatible with both Type A and Type B MXM 3.0/3.1 allow for higher customisability for audiovisual installations based on processor capacity and brand. For approved MXM modules please visit our website: advoli.com
6 independent channels	A single advoli™ TA6 graphics card to drive up to 6 display walls, each playing unique 4K resolution video at a distance of 100 meters each. Pair our graphics card with extenders and each channel can run up to 8 display walls at 100 metres per hop in clone mode.
Half-length and dual width	Use the advoli™ TA6 graphics card in PCIe x16 slots in ITX form factor motherboards for miniaturised installations all the way up to server sized motherboards.
Emulated Controls	Emulate any IR, CEC and RS232 signal. Allow for remote access and control of displays and projectors removing the need for physical remote controls, which is especially useful for digital signage installations.
Pass Through IR	Where physical IR remote controls are a necessity the advoli™ TA6 graphics card can pass through the IR signal from the receiver side or the transmitter side.
Diagnostics	Packed with real-time diagnostic features from temperature, signal strength to cable tampering, remote monitoring of server and displays/projectors is possible. Ensure your audiovisual installation is performing optimal from an environmental, safety and security perspective. Paired with a cloud system, remote management and notifications are made possible.

Cooling Redundancy	We use a pure copper heatsink that has a better thermal performance than most other competing designs. Two dual ball bearing fans running at 70% speed. Should one break the other will increase its speed to 100% to compensate. By using dual ball bearing fans the life cycle increases. The combined result is a much lower operating temperature and a much longer life cycle.
No Electricians	Virtually anyone can pull, place and terminate a CAT cable. Since we removed the need for dongles and power adapters, we have reduced the need of having an electrician come and install additional power outlets.
Device Reduction	If you use a HDBaseT™ certified transmitter and receiver with power adapters for six channels you have up to 54 points of failure between your media player and display. With our HDBaseT™ certified advoli™ TA6 graphics card combined with HDBaseT™ certified displays/projectors we can reduce this down to 6 points of failure. A lot less electronic waste, less points of failure, and potentially a lot less cost.
Plug and Play	No custom advoli™ drivers needed. Ensure you have the driver for the MXM, a free dual width PCIe x16 slot and a 6-pin 12V, free supplementary power cable and you are ready to go. All of our 'software' is built in as firmware.
Screen Order Preservation	We have built in screen order preservation in the firmware. Once you setup your displays, you can lock the EDID. By locking the EDID you can unplug and replug any new display at any other resolution, and your previous locked EDID and resolution will continue to function unchanged. This prevents the operating system from destroying your screen order setup and is valuable for quick display swap during critical operations.
Enormous Resolution	Each channel is capable of independent 4K resolution, however all six 4K channels can be combined into one enormous resolution display e.g. 12K by 4K.

CAT CABLE BENEFITS

Easily Terminated at Installation	Most other competing audiovisual cables do not allow for termination of cable on site and need to be preordered at certain lengths. In addition, competing cables are limited in functionality. CAT cables do not have this limitation.
Cheaper & Abundant	CAT cables are regularly used in networking and have been the standard for decades. Therefore, CAT cables are much cheaper and easier to source than other audiovisual standards.
Long Distances	Most other competing audiovisual cables are limited in length of 3-15 meters for high definition content. With shielded twisted pair CAT cables we can go up to 150 meters per hop for HD content and still pack in all the additional wonderful features.
Fire-resistant & Shielded	It is important to be compliant with regulations and when a necessity, CAT cables are usually much easier and cheaper to find in fire-resistant and shielded material.

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TA6 GRAPHICS CARD



INSTALLATION GUIDE

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INTRODUCTION

Thank you for supporting in our quest to innovate. We are extremely proud of our first product the advoli™ TA6 graphics card, the world first modular HDBaseT™ certified graphics card delivering unparalleled functionality compared to other video cards.

The advoli™ TA6 was designed with optimal flexibility and functionality. It is specifically designed to allow for a simpler and smarter way to do display walls, menu boards and similar audiovisual configurations over long distances.

Most regular graphics card have limitations in that only audio and video signals are transmitted and the signals can only be transmitter over short distances with no ability to terminate cables during installation.

advoli™ TA6 graphics card uses CAT 5e/6/7/+ cables to allow for greater cable functionality and flexibility. CAT cables can easily be terminated at installation, are cheaper to procure and allow for greater functionality, such as power over cable, control signals and diagnostics in addition to audio and video. Our technology combined with HDBaseT™ technology allow transmission of signals over a distance of 100 meters at UHD resolution (4K), and 150 meters at FHD resolution (1080P) over a single hop. With the addition of extenders the signal can be transmitted up to 8 hops, the equivalent distance of 800 meters at UHD resolution or 1200 meters at FHD.

The advoli™ TA6 graphics card is designed to utilise most six channel MXM module that follow the MXM 3.1 specification, allowing for higher flexibility with scaling up or down the GPU based on need. The design is also optimised for the future and can be easily upgraded with new MXM modules, including Type A and Type B. For an updated list of approved MXM modules please visit our website: www.advoli.com

The fan sink is built to optimise cooling in tougher climates, dual fan cooling for redundancy and greater heat dispersion with pure copper heat sink protected by a metal casing.

We expect that our advoli™ TA6 will find a good home with you!

With kind regards,
The advoli™ team

ABOUT THIS GUIDE

This is installation and setup guide for the successful operation of the advoli™ TA6 graphics card.

+ Please make sure that you register your product by scanning the QR code attached to the advoli™ TA6 graphics card. The QR code will lead you directly to our website to fill out the registration form. By registering your product you will receive faster support services.

Warning:

Read all the instructions in this document and heed all warnings before installing product. Keep this document and its instructions and warnings for future reference. Attach product securely with screws and fasteners to ensure continuous bonding between product and chassis. Product should only be used with other products that have passed similar or higher regulatory approval.

SYSTEM REQUIREMENTS

UHD Resolution

To operate advoli™ TA6 HDBaseT™ certified graphics card with UHD resolution x 6 displays showing 6 independent videos you will need at a minimum, a system with the following specifications:

+ Operating System:

Microsoft Windows 8®, 64-bit
Microsoft Windows 10®, 64-bit

+ Motherboard:

PCI Express 3.1 compliant motherboard with a dual-width x16 graphics slot and that is compatible with the below components.

+ System Memory:

2 x 8 GB system memory.

+ Central Processing Unit:

Intel® i7-6700K

+ MXM Module:

AMD® E9550

+ USB or Internet Connection:

For installation of MXM drivers

+ Hard Drive:

Enough free space to run OS and to store content, with additional 20% free space or 1GB whichever is greater. Please note that 4K videos are large in file size and therefore require large storage space. We recommend SSD hard drive with fast read speed, 6 Gb/s, read 560 MB/s, write 520 MB/s

+ System Power Supply:

Minimum 500 W with one unused 6-pin 12V PCI Express power connector per TA6 graphics card.

+ Software:

VLC player or equivalent video player that is low in processor consumption

UNPACKING

EQUIPMENT LIST

+ USB Cable

+ advoli™ TA6 graphics card, with MXM module and Fan Sink + Casing

+ **Quick Start Guide**

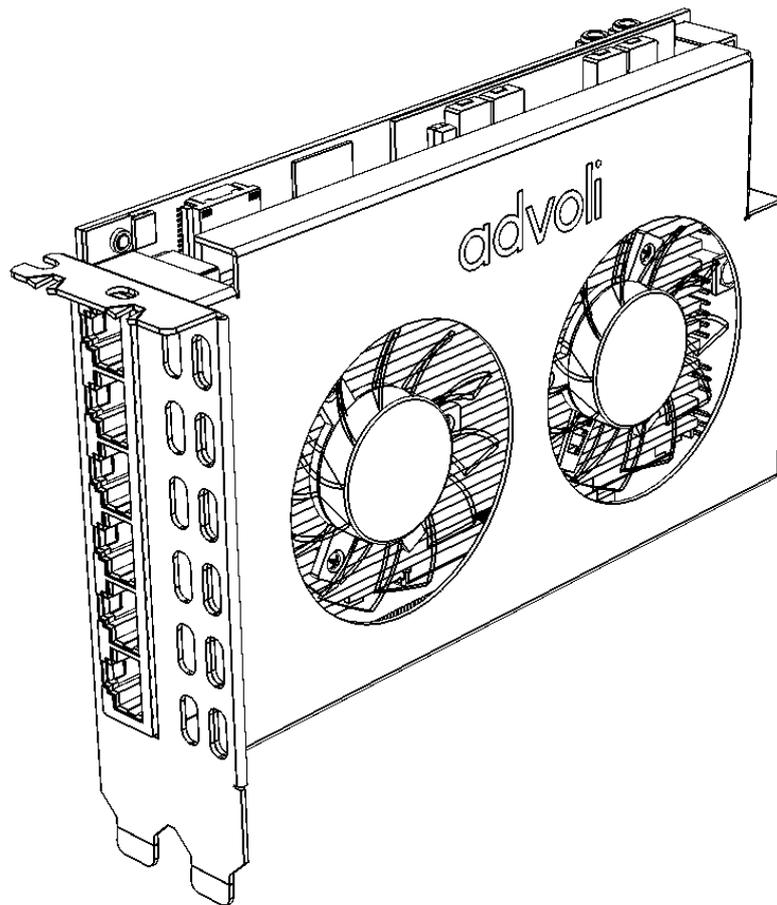
Quick guide on installing advoli™ TA6 graphics card

[Link to advoli™ website for drivers.](#)

[Link to advoli™ website for troubleshooting.](#)

[Link to advoli™ website for detailed manual.](#)

Note: If any of the above items are missing from the box or damaged, please contact your point of purchase.



HARDWARE INSTALLATION

UHD Resolution

Installing the advoli™ TA6 graphics card is simple, however it is important that you follow all the safety instructions outlined in this document to ensure that you, your computer or the graphics card are not damaged. Improper use of electronic products may cause serious personal damage.

The hardware needs to be properly installed before driver installation.

Safety Instructions

- + Ensure that your computer system and all of its components are completely disconnected from any power source before you proceed to install the advoli™ TA6 graphics card
- + As with majority of electronic products that have exposed circuitry and that are not labeled as water proof - do not use the advoli™ TA6 graphics card near water or with wet hands/body.
- + Ensure that the graphic card is not placed on surfaces or in an environment that inhibits air flow or blocks ventilation slots and fans. It is important that the graphic card has proper air flow to reduce temperature of GPU and other components and prevent over heating.
- + Avoid placing the graphics card or its computer near any form of significant heat, dust or humidity as it will destroy the advoli™ TA6 graphics card.
- + Keep product on a safe, stable and secure surface before installing inside computer. Damage to this product will void warranty and will most likely result in it failing.
- + No item should rest on the graphics card or any of its components, such as power cord, fans or other cables. Ensure that non of the peripherals for your computer or computer itself is placed in such a way that the computer is damaged. A damaged computer will most likely damage its internal components such as the advoli™ TA6 graphics card.
- + Ensure that you discharge any static electricity by touching a grounded surface before installing or touching the graphics card. Static electricity can damage components on the graphics card.
- + Ensure that you do not put pressure on or lift the advoli™ TA6 graphics card by the fans. Do not touch the fans when they are operating.

Before you Begin

Ensure that your motherboard has a PCI Express 3.1 x 16 graphics card slot (dual width) and that it is not already in use.

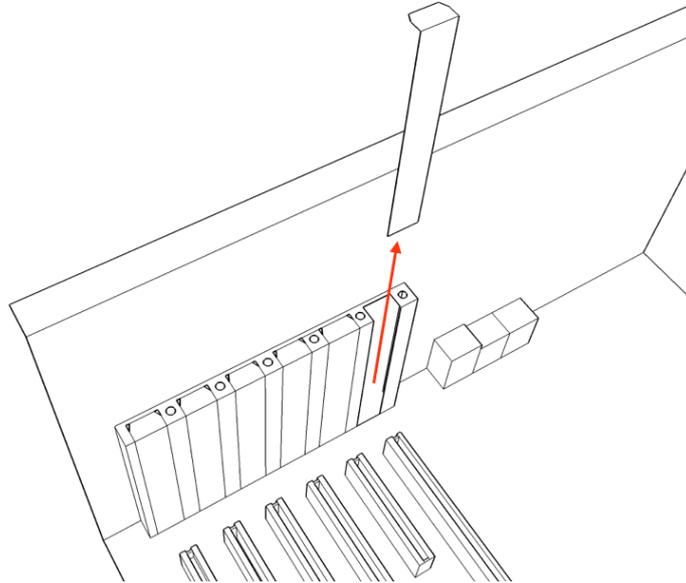
There are many different types of motherboards and therefore this guide will not be sufficient coverage on how to install the advoli™ TA6 graphics card for all types of computer systems. If the explanations that follow do not match with your computer system, please consult the documentation that came with your computer system before proceeding to install.

Installation Steps

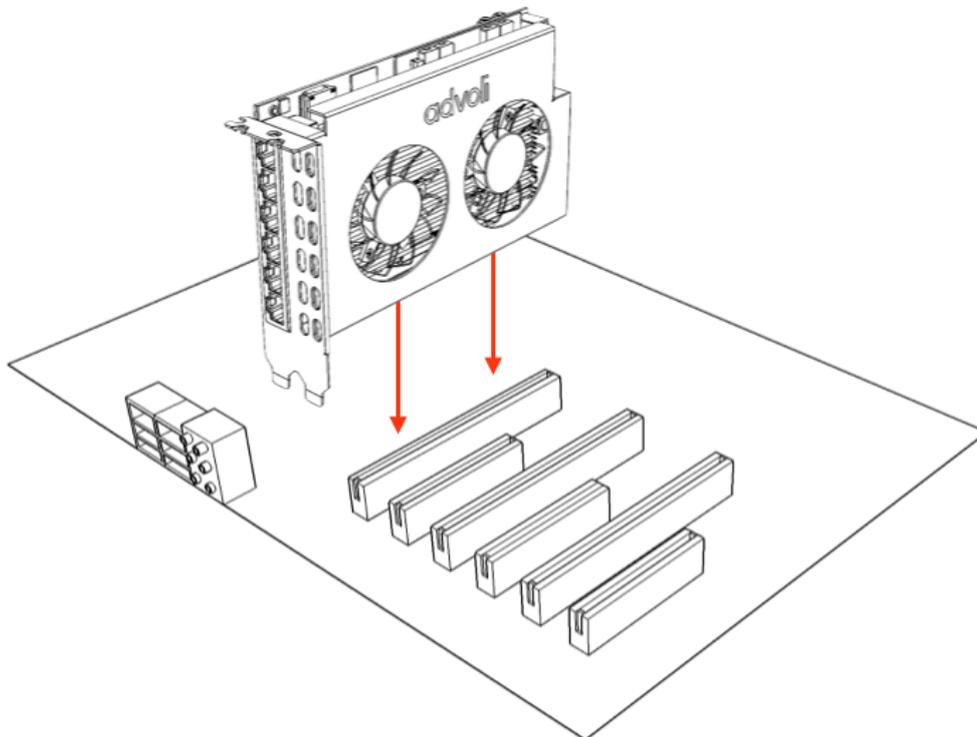
1. Please re-read the safety instructions in this document and follow all of its advice before proceeding to install the graphics card. Make sure you remove any static electricity on your body before touching any electronic component.
2. Turn off and unplug the power cord to your computer and all of its peripherals (monitor, speakers etc...) that may transfer electricity to the computer, you and graphics card.
3. Open the computer casing/panel so that you have direct access to the motherboard. If your computer has been operating immediately before you opened the panel, wait with touching any component inside

your computer until the system is cooled down properly. When the computer is properly cooled down, remove any existing graphics cards if there are any.

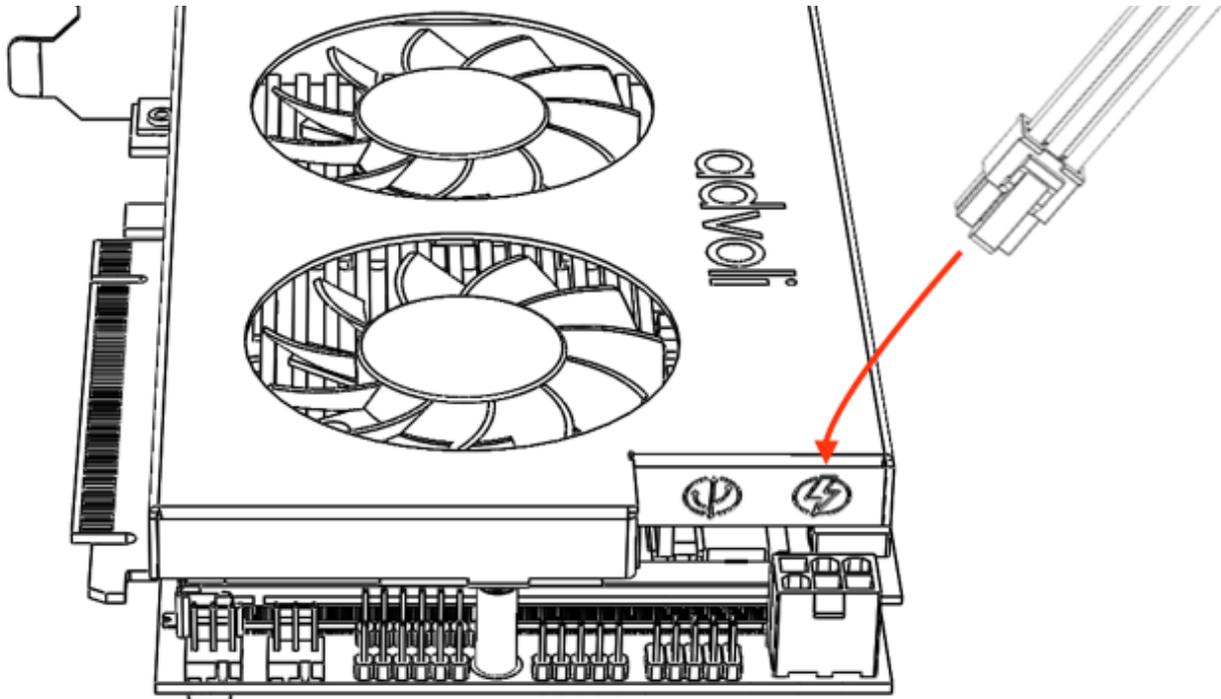
4. Remove one expansion slot cover if there are no graphics card already installed.



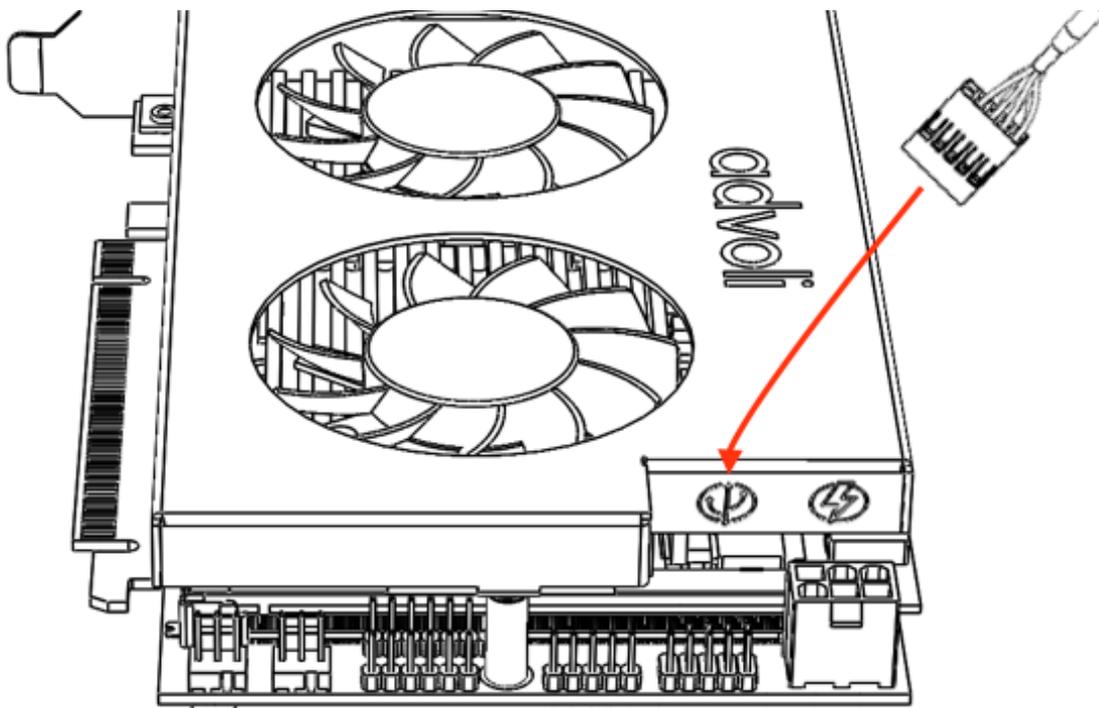
5. Carefully insert the advoli™ TA6 graphics card in the primary PCI express x16 slot. If you have multiple PCI express x16 expansion slots ensure you are using the primary. Please consult the documentation for your motherboard to ensure you have selected the right slot. If you do not use the primary slot, the graphics card may not be recognised. You may also select the correct PCI express x16 slot via bios.



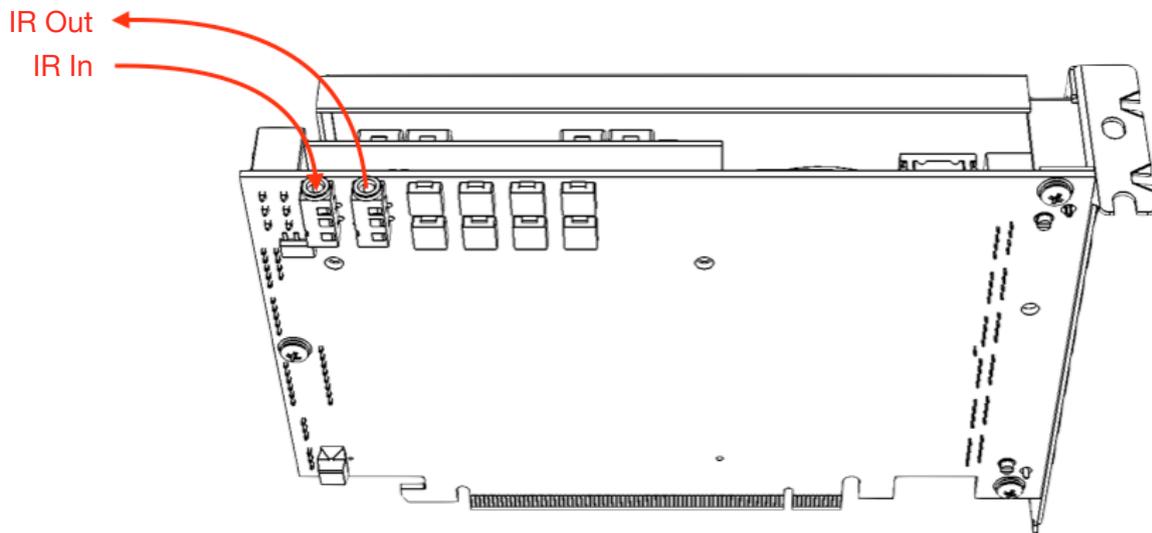
6. Ensure that the advoli™ TA6 graphics card is firmly secured in the PCI express x16 slot and that the bracket of the graphics card is firmly screwed to the computer chassis.
7. Connect one 6-pin PCI Express auxiliary power connector to the top right edge of the advoli™ TA6 graphics card where there is a power connector. If the connector does not fit, please do not force the connector, but ensure that you are properly matching the connector with the socket on the graphics card.



8. Connect one 9-pin cable that comes with the advoli™ TA6 graphics card to the to the top right edge of the advoli™ TA6 graphics card where you see the 9-pin connector. If the connector does not fit, please do not force the connector, but ensure that you are properly matching the connector with the socket on the graphics card.



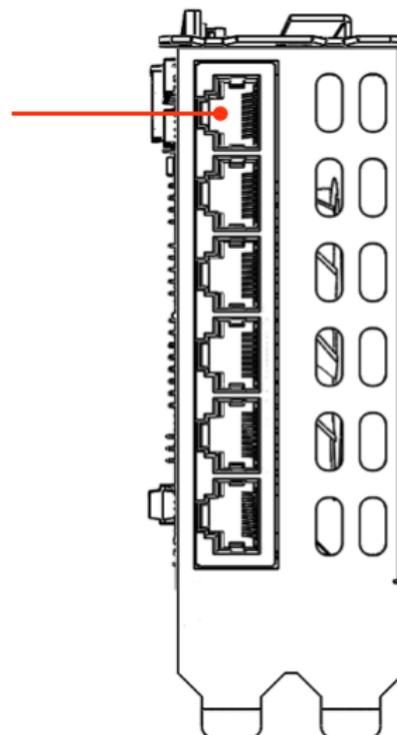
9. You may choose to connect an IR source to the advoli™ TA6 graphics card in the 'IR in' socket, or an IR emitter to the 'IR out' if you plan on using the IR control capabilities of the graphics card.



10. Close the computer casing/panel once you have completed the installation of the advoli™ TA6 graphics card.
11. It is advised to use an already existing HDMI/VGA socket on the motherboard with a paired monitor to setup the driver for the graphics cards. If you do not setup the driver before using the RJ45 sockets the graphics card may not work. Please ensure you install the driver before proceeding to step 12 below.
12. You will need to have CAT 6/7/+ cables in at least one of the six RJ45 sockets with a HDBaseT™ certified display or HDBaseT™ certified receiver in order to use the HDBaseT™ certified advoli™ TA6 graphics card. You may use all six RJ45 sockets paired with their own display respectively. It is advised to use HDBaseT™ certified receivers to ensure compatibility.

HDBaseT™ Output

Each RJ45 port can deliver 4K resolution video, audio, controls (RS232, IR, CEC), 3Dsync and receive diagnostics.



DRIVER INSTALLATION

After the hardware installation, it is important to follow the process to install the correct drivers. advoli™ TA6 graphics card is designed to work with a multitude of MXM modules from different manufacturers, this includes Type A and Type B MXM modules. Therefore it is important to understand that the below process is the driver installation instruction for AMD E9550 MXM module and that other modules may need other drivers. Please visit our website www.advoli.com for instructions on how to install drivers for other modules.

1. Go to: www.advoli.com/drivers to download driver for your operating system
2. Ensure that any other existing graphics card drivers are uninstalled before proceeding with installing the driver at the above URL.
3. Double-click the downloaded file and select installation destination folder.
4. Choose default selection for drivers (recommended) and click install
5. The drivers will be installed, please note that displays may flicker multiple times, and if you have multiple displays they may switch off for a while. Be patient and let the installation process finish.
6. After the installation is complete, click 'restart now'. Restarting the computer is a must in order for the installation to complete and for you to be able to use the advoli™ TA6 graphics card.

Please note: The current driver is compatible with the AMD E9550 MXM module and the advoli™ TA6 graphics card. If you choose to use a newer or alternative driver installation executable file, then the advoli™ TA6 graphics card may not work properly

CONFIGURING AUDIO

To ensure you do not experience audio issues, it is important that you have the correct audio settings to allow audio over LAN.

Enabling Audio over LAN

When you have connected your displays with CAT cables to the HDBaseT™ certified advoli™ TA6 graphics card in one end and a HDBaseT™ certified display or HDBaseT™ certified receiver in the other - you may need to verify that your audio output is enabled.

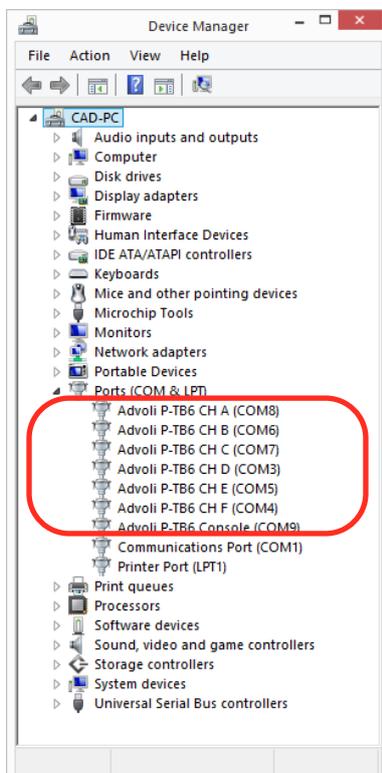
For Windows 8 and 10

1. Right click Start OR Press Windows key + X
2. In the menu that opens, click Control Panel
3. New window will open, in the top right select view by (large icons)
4. Find the icon that says sound, and click it
5. New sound window should open, select the playback tab in the new sound window
6. In the playback tab, select the display you want to be the default, after selecting the display to be the default audio display, select set default and click apply.

You have now selected the display that will be the default audio channel and your advoli™ TA6 graphics card is ready to be used.

CONSOLE USER GUIDE

1. Ensure that you have followed the complete hardware installation process in the previous section of this document.
2. Verify that the 9-pin cable is plugged into the advoli™ TA6 graphics card and the motherboard. If not, please go back to the hardware installation process, followed by driver installation and audio configuration.
3. Once your advoli™ TA6 graphics card has been properly installed and is functioning, Windows Device Manager will present six COM ports. An example of this is shown in the picture below as COM3-COM9. There will be one COM port for each of the six channels of the advoli™ TA6 graphics card.

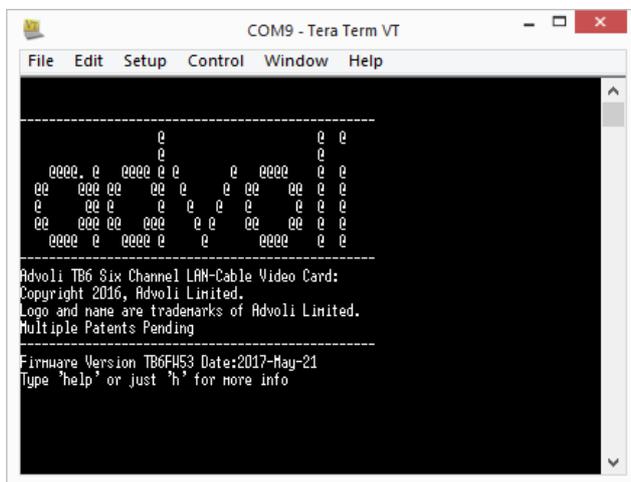


The above image is a screenshot from Windows 8 for illustration and educational purposes only. Please note that the Device Manager or equivalent name on other operating systems and versions of Windows may display the COM ports differently. Versions before Windows 8 may work, but are not supported.

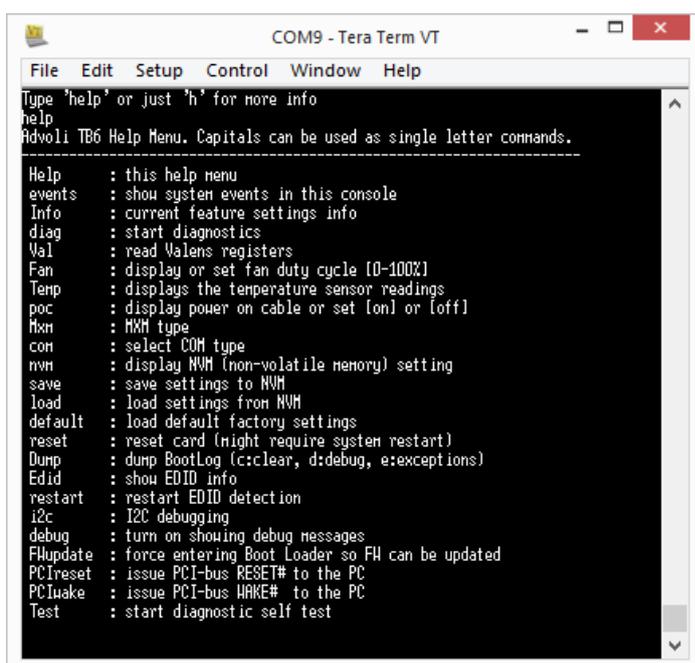
These serial ports will be accessible through your HDBase™ certified receiver through the serial port. Note that one COM port is the Console port, used with a terminal tool to configure the various functions of the advoli™ TA6 graphics card. The advoli™ TA6 graphics card uses a Universal Serial COM port that also works under Linux and Mac OS.

CONFIGURING THE CONSOLE

1. Ensure you have a terminal program installed. An example of an open source terminal program is TeraTerm. Other terminal programs may be used to configure the advoli™ TA6 graphics card console.
2. The advoli™ TA6 graphics card uses a Universal Serial COM port that also works under most other operating systems. The port is virtual, so any port setting and speed is supported.
3. Open the console with the terminal program and a welcome message will show as seen in the below picture:



4. Type 'help' or 'h' to display the help-menu as shown in the below picture:



5. **WARNING:** Be aware many of the commands in the advoli™ TA6 graphics card console is intended for factory testing and diagnostics, and should not generally be used by end users as it may render your product non-functioning. This document describes the most used and useful commands for the advoli™ TA6 graphics card that are safe to use by the general public. Any other command not explicitly listed in this document under the heading 'safe commands', but may be shown in the images in this document or are available through the console at time of use, should not be used.

Safe Commands:

- + **Information:** Type 'Info' or 'i'

This command shows the status and current configuration of the advoli™ TA6 graphics card.

- + **Signal Quality:** Type 'val' or 'v'

This command is useful to show the connectivity and signal quality for each of the 6 channels. It will show the cable length and bit error rate for each channel, and can be used to find mistakes in CAT cabling. Note that each CAT cable has 4 pairs; P0, P1, P2, and P3. In addition to the above, this command shows the signal integrity for each of the 4 pairs in the cable. This tool can be used to troubleshoot and identify issues when channels are unable to connect or when connections are intermittent.

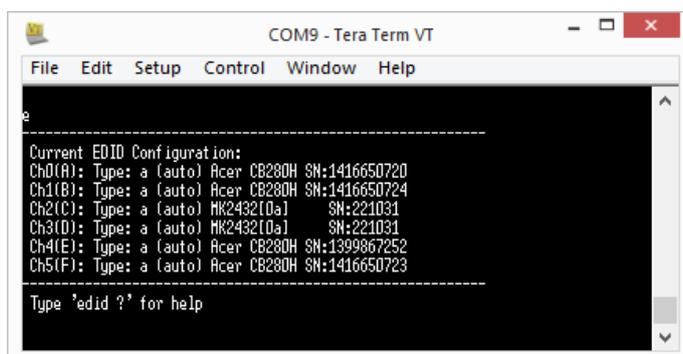
- + **EDID Configuration:** Type 'edid' or 'e'

This command allows for customisation and ability to lock EDID configurations after the desired combination of displays/projectors have been installed. Changes in order/configuration of displays/projectors in the operating system happens when cables are disconnected or when new displays/projectors are added. Locking the EDID configuration will prevent changes of EDID information and thereby prevent display order/configuration changes in the operating system. This feature is valuable for servicing, when replacing displays/projectors/cables or when cables are for whatever reason pulled out from displays/projectors.

Each channel of the advoli™ TA6 graphics card can have its own custom configuration, although the most common configuration is to configure each channel with the same type of display/projector.

Auto Detect EDID vs Locked EDID:

Note in the image below that the type for each channel is "Type: a (auto)"



```

COM9 - Tera Term VT
File Edit Setup Control Window Help
-----
Current EDID Configuration:
Ch0(A): Type: a (auto) Acer CB280H SN:1416650720
Ch1(B): Type: a (auto) Acer CB280H SN:1416650724
Ch2(C): Type: a (auto) HK243210a1 SN:221031
Ch3(D): Type: a (auto) HK243210a1 SN:221031
Ch4(E): Type: a (auto) Acer CB280H SN:1399867252
Ch5(F): Type: a (auto) Acer CB280H SN:1416650723
-----
Type 'edid ?' for help

```

Brand names and models are for illustration and educational purposes only

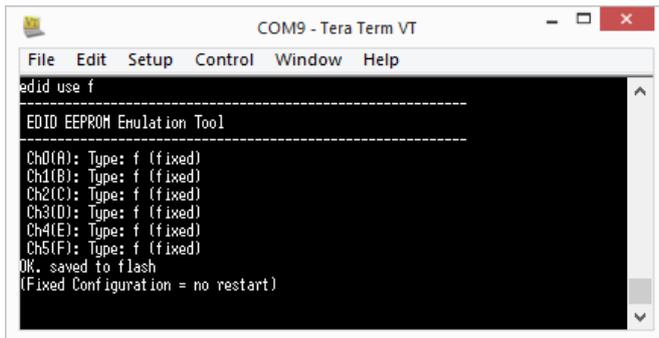
For the Auto Channel configuration removing monitors will not cause any event on the operating system, and the advoli™ TA6 graphics card will continue to present a removed monitor as if it is still connected. This is useful to avoid any accidentally disconnected, broken, or missing displays/projectors from causing the desktop of the operating system to be rearranged. However, in auto-mode, if a new display/projector is connected, the operating system will notice the change and the desktop will be updated to match the new configuration.

Note that in Auto-mode the desktop may rearrange if a different display/projector of the same model and brand is attached, because each display/projector has a unique serial number as part of its EDID.

Locked EDID for all channels: Type “edid use f”

Once the desired configuration and operating system desktop display/projector configuration has been reached, you may choose to lock the monitor EDID configuration. This will prevent any changes to the monitors from being detected by the OS. Note that the advoli™ TA6 graphic card stores this information in its local on-board flash memory and will remember this configuration on every power up.

Notice in the picture below that the console displays a message after locking or “fixing” the channels.



There is no restart of EDID or monitor detection required after this command, and from now on the desktop configuration in the OS will not change as a result of new or old monitors being connected or disconnected to the advoli™ TA6 graphics card.

Auto Detect EDID for all channels: Type “edid use a”

If the operating system needs to discover new monitor types or its desirable for the advoli™ TA6 graphics card to detect new types of displays/projectors revert the EDID back to auto-mode by typing the following command: “edid use a”.

Individual channel EDID configuration: Type “edid use” followed by channel setting

When a single letter ‘a’ or ‘f’ is used, it configures all 6 channels to that specific setting.

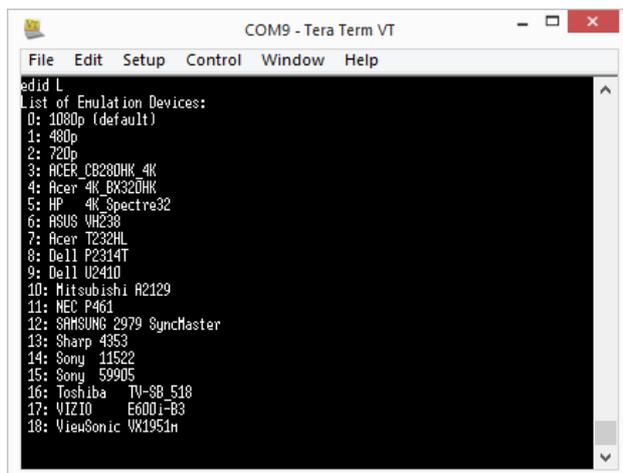
If a separate channel configuration is desired for each of the 6 channels, use the following command syntax: “edid use a a a f f f”. Notice that there are exactly 6 letters with a space between them. The example above will put the first 3 channels A, B and C into auto-mode, and lock/“Fix” the last 3 channels D, E and F.

Turning OFF Channels: Type “edid use o”

Any of the 6 channels may be turned “off”, in which case it prevents that channel from being noticed by the operating system completely. The syntax for this is using the letter ‘o’ for “off”. Example: “edid use a a a a o” which puts all channels in Auto-mode except the last channel ‘F’.

Emulated EDID from List: Type “edid L”

To see a list of typical EDIDs type “edid L”. Notice the numbers to the left of the resolution/display in the list. You may use this number by replacing the ‘a’, ‘f’, or ‘o’, in the previous commands e.g. “edid use 2”, in which the EDID from item number 2 in the list will be emulated and it will be detected and used by the operating system.



Brand names and models are for illustration and educational purposes only

Note: After any change of fixed or auto EDID configuration, it may take the operating system and video card drivers some time to adjust to the new monitor configuration. In some cases, especially in operating systems that have been used with many different monitor configurations and desktops, it may take the operating system several minutes to fully reconfigure to the new configuration. Please be patient.

+ Activity Log: Type “d”

The advoli™ TA6 graphics card creates a fresh log-file on boot. Any event that happens gets logged in this file. To display this file type “dump” or ‘d’. For any support issues or diagnostics capture, please provide the result of this file and send it to the advoli™ support team.

REGULATORY COMPLIANCE

The advoli™ TA6 graphics card is compliant with the following regulations:

REGULATORY COMPLIANCE

United States	FCC Rules Part 15 Subpart B 15.109/15.107 Class B
Canada	ICES-003 Issue 6 January 2016
Europe	CE & WEEE EN55032 Class B (2015) EN55024 (2010/A:2015), (IEC/ EN61000-4-2(2009)/-3(2006+A2:2010)/-4(2012)/-6(2014)/-8(2010)) EN 60601-1-2: 2015 EN 55011 (2009+ A1:2010) IEC/ EN61000-4-2(2009)/-3(2006+A2:2010)/-4(2012)/-6(2014)/-8(2010))
Japan	VCCI-CISPR 32: 2016 Class B
Australia & New Zealand	C-Tick EN55032 Class B (2015). AS/NZS CISPR 32:2015

For details of regulatory compliance for our products please visit our website www.advoli.com

Warning: advoli™ TA6 graphics card is only to be used with shielded CAT cables. Using any other type of cable will make the product non-compliant and will void any regulatory compliance listed above. Please ensure that the advoli™ TA6 graphics card is properly grounded and connected to the chassis.

Note: advoli™ may have added other regulatory compliances after the publishing of this document. For a complete view on our regulatory approval compliances, processes, technical setup and results, please visit our website www.advoli.com/compliance

LEGAL

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