

advoli TM



ADVOLI™ TA6 PERFORMANCE INSTALLATION GUIDE

HDBaseT™ Certified Product

INSTALLATION GUIDE

INTRODUCTION	3 - 5
About This Guide	4
System Requirements	5
UNPACKING	6
Equipment List	6
HARDWARE INSTALLATIONS	7 - 10
Safety Instructions	7
Before You Begin	7
Installing the advoli™ TA6 Performance Graphics Card	7 - 10
DRIVER INSTALLATIONS	11
CONFIGURING AUDIO	12
Enabling Audio over CAT	12
CONSOLE USER GUIDE	14-17
Configuring Console	14-17
POWER OVER CABLE	18-19
Warning	18
Default Product Shipment - Disabled PoC	18
Enable PoC	19
REGULATORY COMPLIANCE	20 -21
LEGAL	22

INTRODUCTION

Thank you for your support in our quest to innovate. We are proud to present the advoli™ TA6 Performance graphics card, the world's first HDBaseT™ certified graphics card delivering unparalleled functionality compared to any other video card.

The advoli™ TA6 Performance graphics card 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 in high resolution and over long distances.

Most other graphics cards are limited to transmission of only audio and video signals, and the signals can only be transmitted over short distances with no ability to terminate cables during installation.

advoli™ TA6 Performance 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 (optional), 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 Performance graphics card is designed to utilise most six channel MXM modules 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 Performance graphics card will find a good home with you!

With kind regards,
The advoli™ team

ABOUT THIS GUIDE

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

- + Please make sure that you register your product by scanning the QR code attached to the advoli™ TA6 Performance 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 the advoli™ TA6 Performance HDBase™ 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® i7-7700K or better

+ MXM Module:

AMD® E9550 (Included with your purchase)

+ USB or Internet Connection:

For installation of MXM drivers

+ Hard Drive:

Enough free space to run the OS and to store the 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, with minimum 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 Performance graphics card.

+ Software:

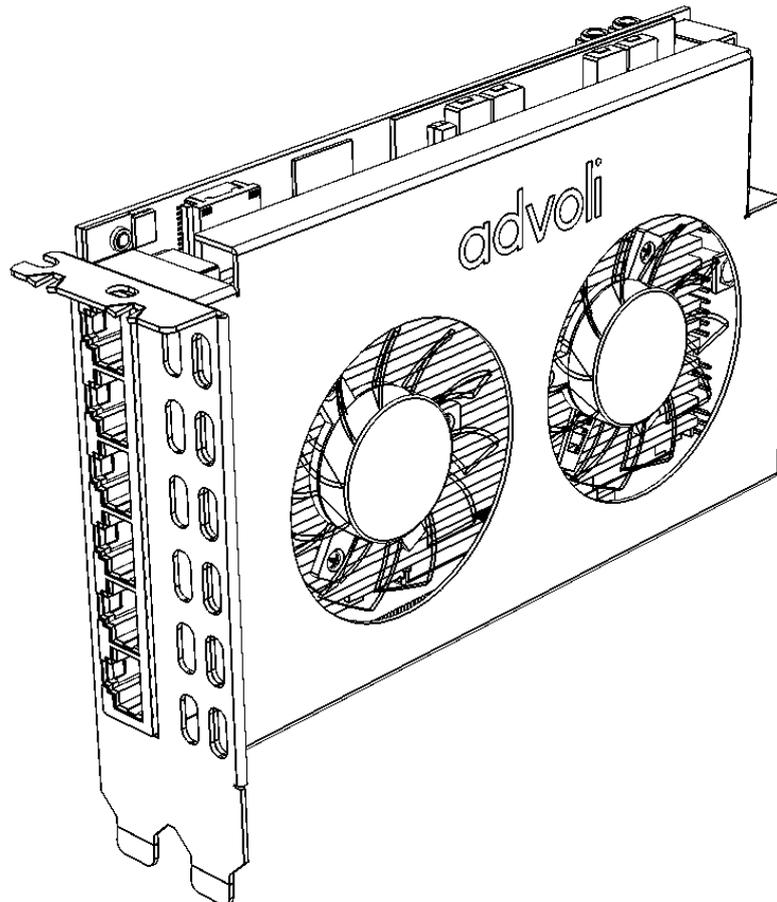
VLC player or equivalent video player that is low in processor consumption

UNPACKING

EQUIPMENT LIST

- + USB Cable
- + USB 3.0 to 2.0 Converter Card
- + advoli™ TA6 Performance graphics card, with MXM module and Fan Sink + Casing
- + Quick Start Guide
 - Quick guide on installing advoli™ TA6 Performance 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

Installing the advoli™ TA6 Performance 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 and the graphics card are not damaged. Improper use of electronic products may cause serious material and personal damage.

The hardware needs to be properly installed before the driver is installed.

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 Performance graphics card.
- + As with the majority of electronic products that have exposed circuitry and that are not labeled as water proof - do not use the advoli™ TA6 Performance graphics card near water or liquids 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 the temperature of the GPU and other components and prevent over heating.
- + Avoid placing the graphics card or its computer in an environment or close to a source with significant heat, dust or humidity as it will destroy the advoli™ TA6 Performance graphics card.
- + Keep the 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 also the advoli™ TA6 Performance 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 Performance graphics card by the fans. Do not touch the fans when they are operating.
- + If you choose to add Power over Cable (PoC), ensure that you read carefully the section dedicated to it in this document and especially the warning!

Before you Begin

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

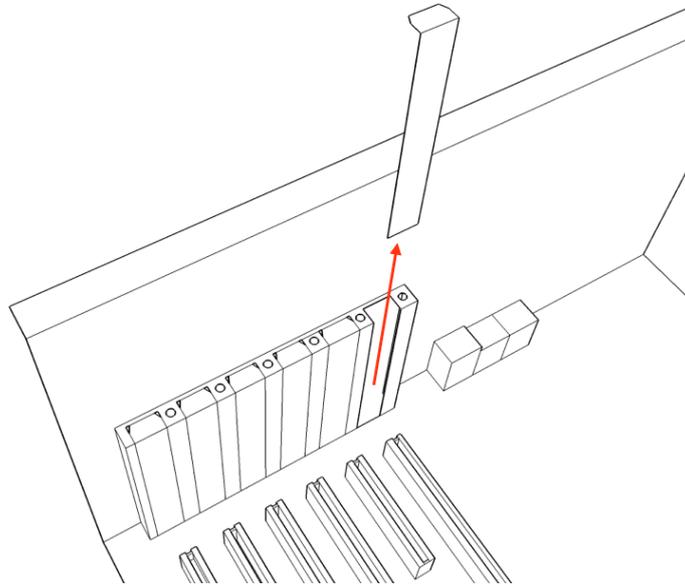
There are many different types of motherboards and therefore this guide will not be sufficient to cover how to install the advoli™ TA6 Performance graphics card for all the different types of computer systems. If the explanations that follow do not match with your computer system, please consult the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

Installation Steps

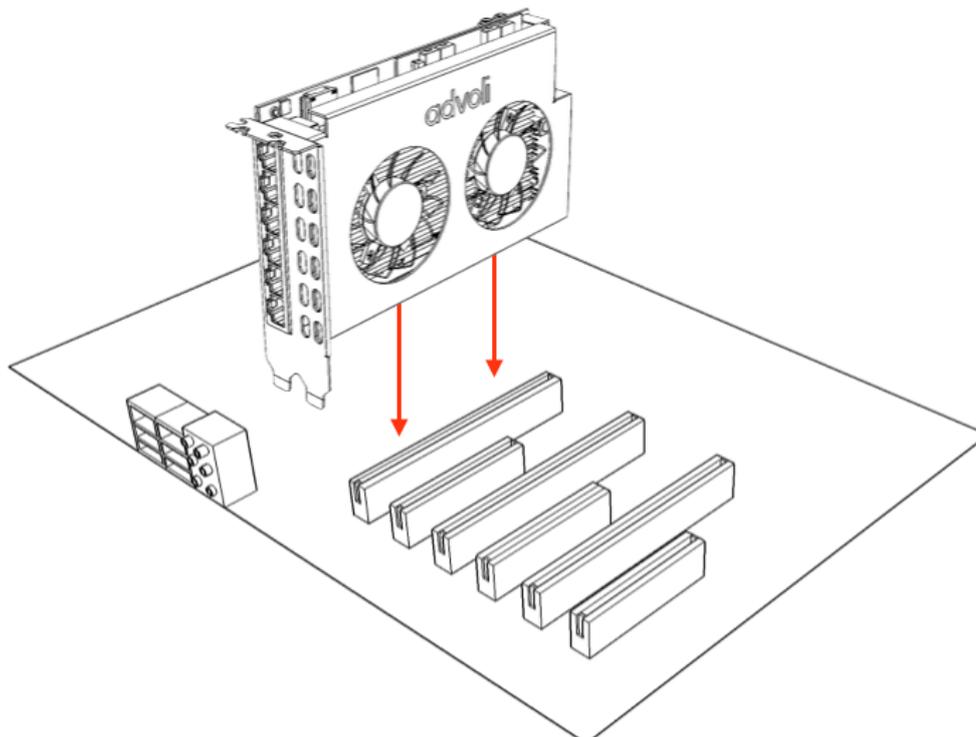
1. Please re-read the safety instructions in this document and follow all of its advice before proceeding to install the graphics card. Make sure you remove any static electricity on your body before touching any electronic component.
2. Turn off and unplug the power cord to your computer and all of 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 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.

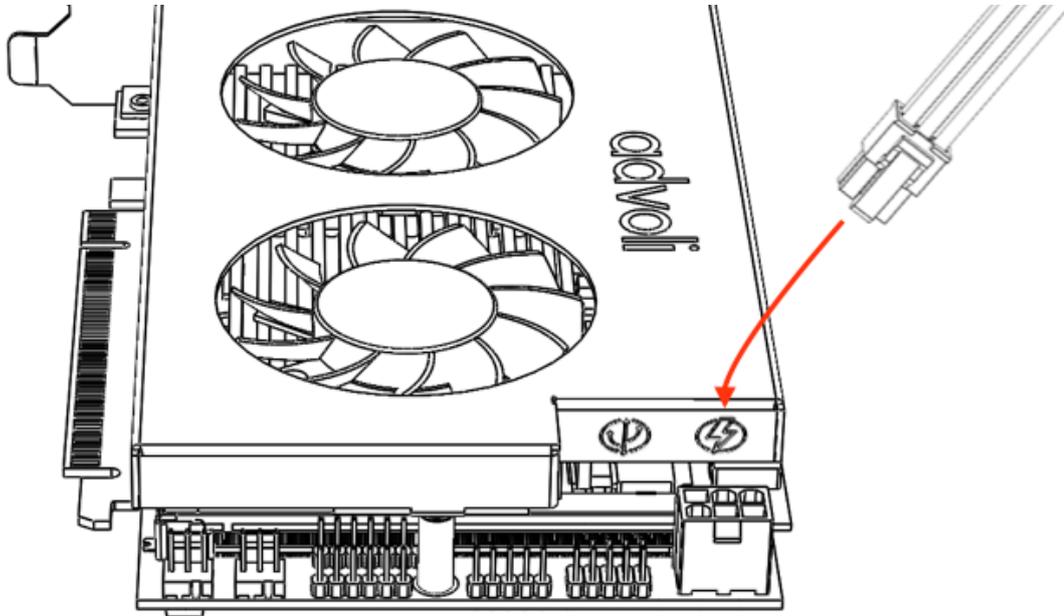
4. Remove one expansion slot cover if there are no graphics card already installed. If a previous graphics card has been installed, it is highly recommended that you remove all previous drivers and start with a fresh installation of your operating system. Other graphics card drivers can interfere with the TA6 Performance graphics card driver causing it from working effectively and degrade GPU performance.



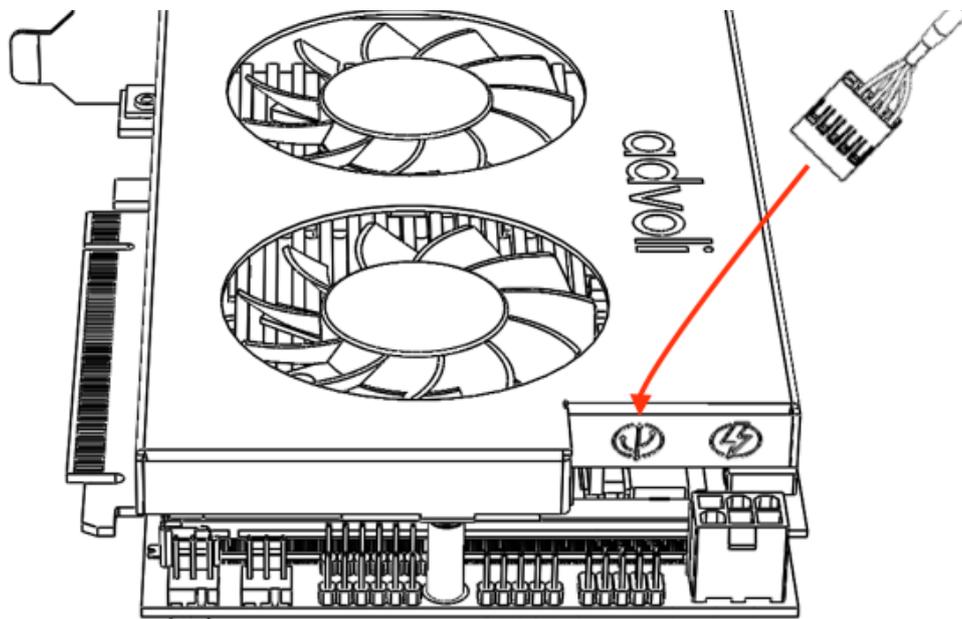
5. Carefully insert the advoli™ TA6 Performance graphics card in the primary PCI express x16 slot. If you have multiple PCI express x16 expansion slots ensure you are using the primary. Please consult the documentation for your motherboard to ensure you have selected the right slot. If you do not use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



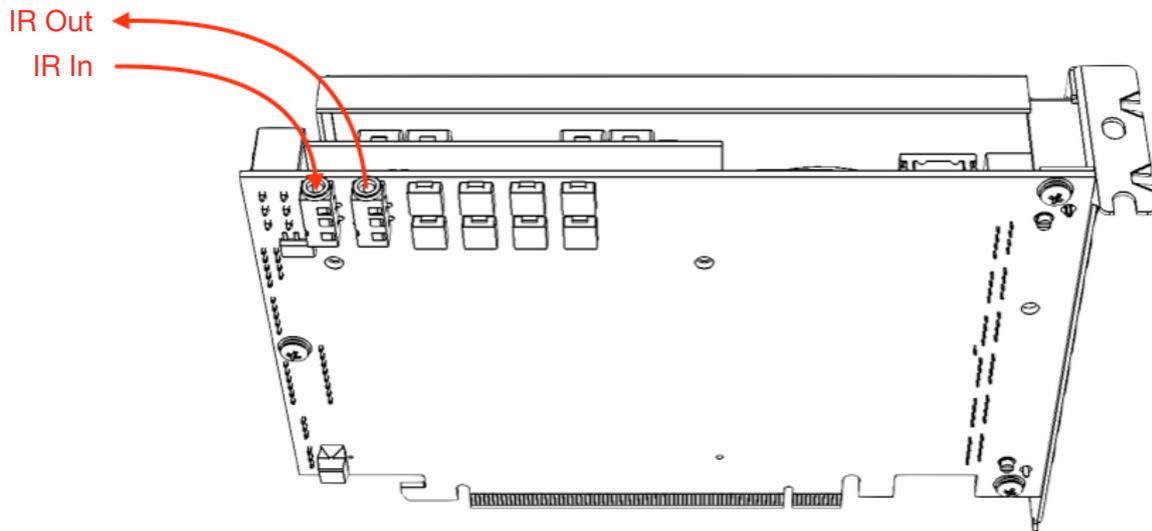
6. Ensure that the advoli™ TA6 Performance graphics card is firmly secured in the PCI express x16 slot and that the bracket of the graphics card is firmly screwed to the computer chassis.
7. Connect one 6-pin PCI Express auxiliary power connector to the top right edge of the advoli™ TA6 Performance graphics 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 Performance graphics card to the to the top right edge of the advoli™ TA6 Performance 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 pins on the graphics card. The other side of the 9-pin should be connected to your motherboard USB 9-pin header connector. If there is no 9-pin USB 2.0 header connector on your motherboard, but there is a 19-pin USB 3.0 header, please use the USB adapter card that comes with your advoli™ TA6 Performance graphics card.

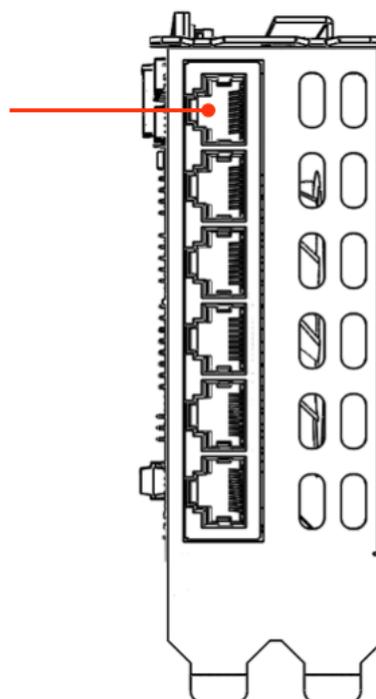


9. You may choose to connect an IR source to the advoli™ TA6 Performance graphics card in the 'IR in' socket, or an IR emitter to the 'IR out' if you plan on using the IR pass through capabilities of the graphics card.



10. Close the computer casing/panel once you have completed the installation of the advoli™ TA6 Performance graphics card.
11. It is advised to use an already existing HDMI/VGA connector on the motherboard with a paired monitor to setup the driver for the graphics cards. If you do not setup the driver before use of the graphics card, it may not work on some motherboards until you have done so. Please ensure you install the driver before proceeding to step 12 below.
12. You will need to have CAT 5e/6/7/+ cables in at least one of the six RJ45 sockets with a HDBaseT™ certified display or HDBaseT™ certified receiver connected to a display in order to use the HDBaseT™ certified advoli™ TA6 Performance 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. We highly recommend the advoli™ HDBaseT RA1 Performance receiver for guaranteed 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 Performance graphics card is designed to work with a multitude of MXM modules from different manufacturers, this includes Type A and Type B MXM modules. It is important to understand that the below process is the driver installation instruction for AMD E9550 MXM module. Other modules may need other drivers. Please visit our website www.advoli.com/drivers/ 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. We highly recommend starting with a fresh installation of your operating system.
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, come back on and flicker some more. Be patient and let the installation and setup process finish.
6. After the installation is complete, click 'restart now'. Restarting the computer is important for the installation to complete and for you to be able to use the advoli™ TA6 Performance graphics card.

Please note: The current driver is compatible with the AMD E9550 MXM module and the advoli™ TA6 Performance graphics card. If you choose to use a newer or alternative driver installation executable file, then the advoli™ TA6 Performance 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 HDBase™ certified advoli™ TA6 Performance graphics card in one end and a HDBase™ certified display or HDBase™ certified receiver in the other - we recommend our advoli™ HDBaseT RA1 Performance receiver for guaranteed compatibility - you may need to verify that your audio output is enabled.

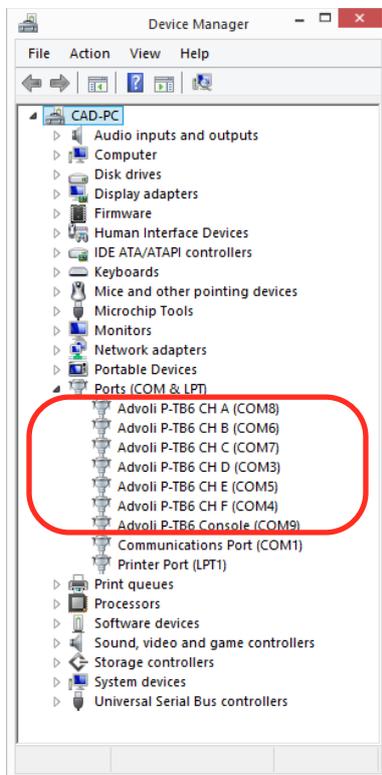
For Windows 8 and 10

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 Performance graphics card is ready to be used. If you would like to have audio go out on more than one channel, certain operating systems may limit you to only two outputs. Do not worry there are third party software, including freeware available to allow audio to go out on all six channels. The advoli™ TA6 Performance graphics card is designed to allow six channels with audio.

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 Performance 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 Performance 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 Performance graphics card.

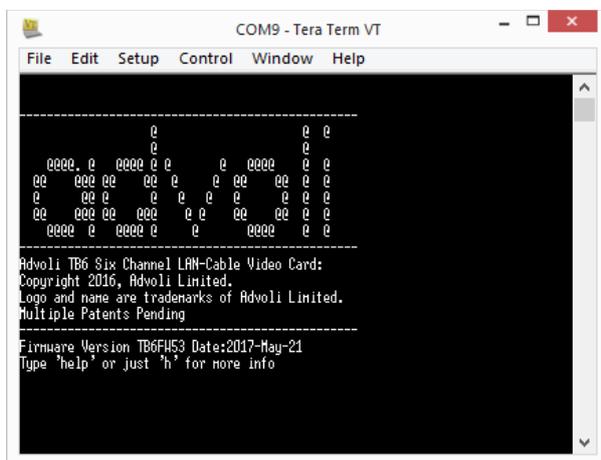


The above image is a screenshot from Windows 8 for illustration and educational purposes only. Please note that the Device Manager or equivalent name on other operating systems and versions of Windows may display the COM ports differently. Versions before Windows 8 may work, but are not supported.

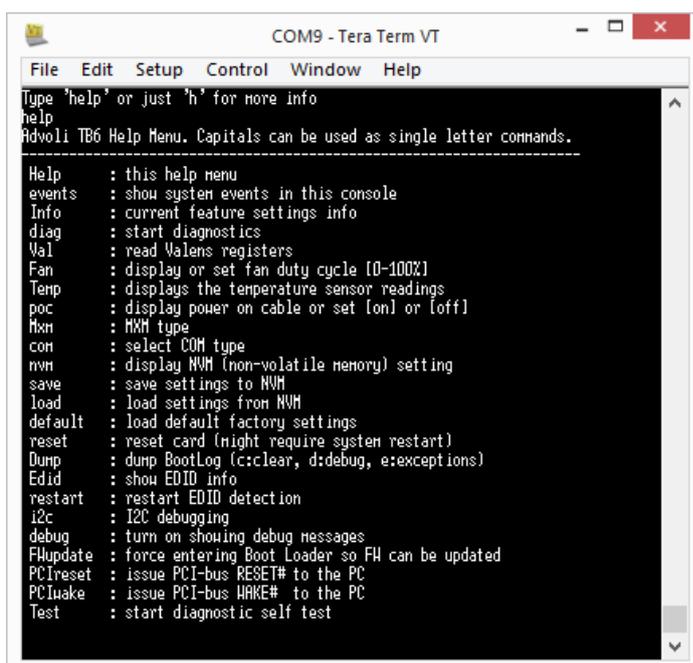
These COM ports will give access to serial through your HDBase™ certified receiver, if it has a serial port. If your receiving unit does not have a serial capability, this option will not work. With the advoli RA1 Performance receivers, you will get access to a wealth of additional diagnostics, and ability for full serial communication through our serial dongle. Note that one COM port is the Console port, used with a terminal tool to configure the various functions of the advoli™ TA6 Performance graphics card. The advoli™ TA6 Performance 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 Performance graphics card console.
2. The advoli™ TA6 Performance 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 Performance graphics card console is for advanced users of advoli products, and should generally not 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 Performance 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. If you choose to use the additional advanced commands, you do so at your own risk and you assume all responsibility of any consequence arising from such action.

Safe Commands:

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

This command shows the status and current configuration of the advoli™ TA6 Performance 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 faults 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 and for each of the channels active. This tool can be used to troubleshoot and identify issues when channels are unable to connect or when connections are intermittent.

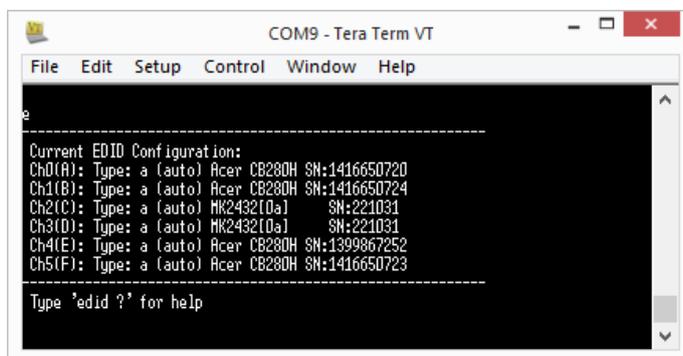
- + **EDID Configuration:** Type 'edid' or 'e'

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 Performance 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 Performance 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

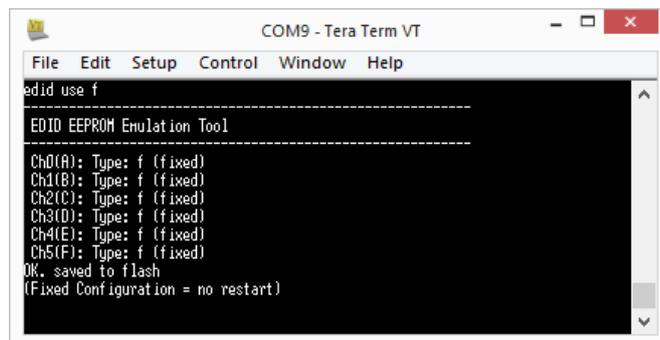
from causing the desktop of the operating system to be rearranged. However, in auto-mode, if a new display/projector is connected, the operating system will notice the change and the desktop will be updated to match the new configuration.

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 Performance 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.



```

COM9 - Tera Term VT
File Edit Setup Control Window Help
edid use f
-----
EDID EEPROM Emulation Tool
-----
Ch0(A): Type: f (fixed)
Ch1(B): Type: f (fixed)
Ch2(C): Type: f (fixed)
Ch3(D): Type: f (fixed)
Ch4(E): Type: f (fixed)
Ch5(F): Type: f (fixed)
OK, saved to flash
(Fixed Configuration = no restart)

```

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 Performance 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 Performance 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.

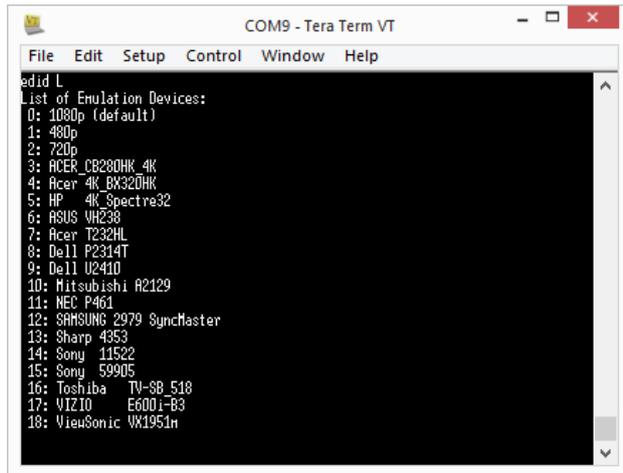
Turning OFF Channels: Type “edid use o”

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.



```

COM9 - Tera Term VT
File Edit Setup Control Window Help
edid L
List of Emulation Devices:
0: 1080p (default)
1: 480p
2: 720p
3: ACER_CB280HK 4K
4: Acer 4K BX320HK
5: HP 4K Spectre32
6: ASUS V4238
7: Acer T232HL
8: Dell P2314T
9: Dell U2410
10: Mitsubishi R2129
11: NEC P461
12: SAMSUNG 2979 SyncMaster
13: Sharp 4853
14: Sony 11522
15: Sony 59905
16: Toshiba TV-SB_518
17: VIZIO E600i-B3
18: ViewSonic VX1951H
  
```

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 Performance 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.

POWER OVER CABLE

WARNING!:

If you choose to add the option of Power over Cable (PoC) using the jumper that comes with the product, understand that you cannot then use the advoli™ TA6 Performance with other power over cable products or other HDBaseT products. The advoli™ TA6 Performance ceases to be a certified HDBaseT product, once you put in the jumper. You can only use the Power over Cable function directly with the advoli™ RA1 Performance or advoli™ RB1 Standard receivers.

advoli™ is not responsible for any damage in any shape, way or form, caused to products or people when you use the Power over Cable (PoC) functionality with any other product than those listed here: advoli™ RA1 Performance and advoli™ RB1 Standard receivers.

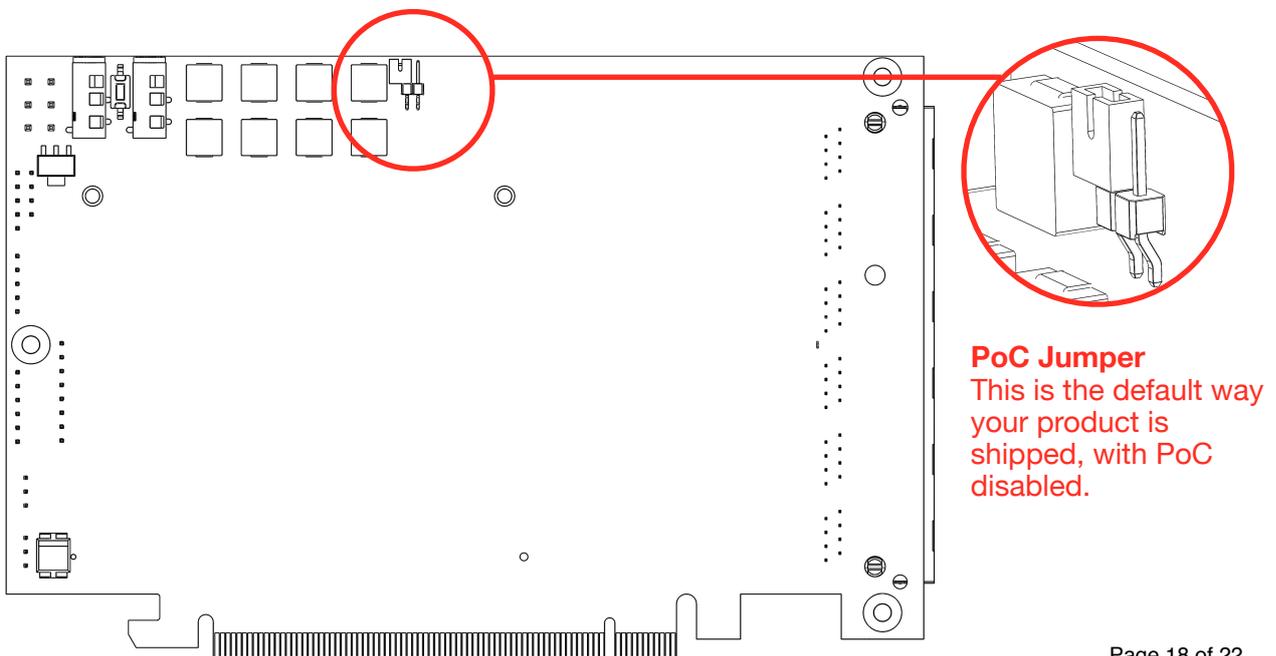
The advoli™ TA6 Performance graphics card is shipped default without any PoC functionality enabled. Please ensure that your advoli™ TA6 Performance does not have the jumper plugged in before installing and using the advoli™ TA6 Performance graphics card. Using the PoC functionality will not violate regulatory compliance as listed in the “Regulatory Compliance” section of this document. The jumper is a small device and may be a choking hazard. Store it in a safe place and away from children when not in use.

The jumper looks like the below illustration and is approximately 4 mm / 0.157 in (L) x 5 mm / 0.196 in (H) x 2mm / 0.78 in (W). Only plug/unplug the jumper when the graphics card is taken out of a computer/system and has no connected power via auxiliary power or via the PCI Express port.



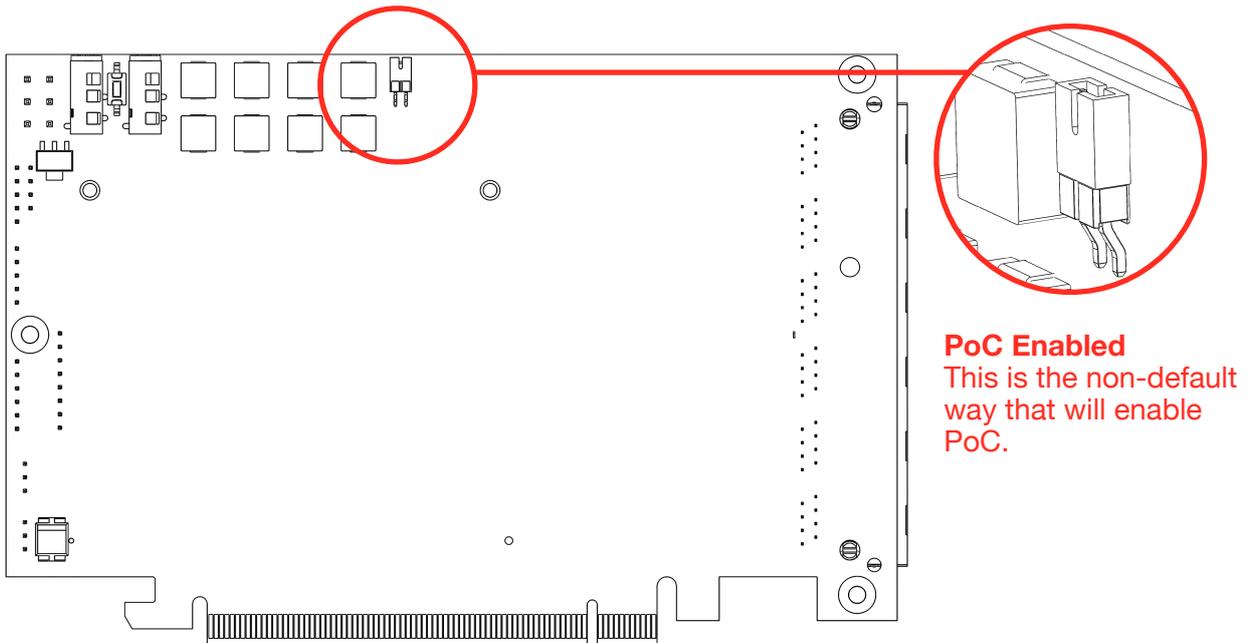
Default Product Shipment - Disabled PoC:

Ensure that your advoli™ TA6 Performance graphics card once taken out of the box has the jumper plugged in at the back of the advoli™ TA6 Performance graphics card as depicted in the illustration below. This is the default way that you should receive the product and it means that PoC is disabled and that your product is HDBaseT certified and compliant and should be interoperable other HDBaseT certified products. If the jumper on your advoli™ TA6 Performance graphics card is plugged in, in any other way than as depicted the below illustration, please remove it completely from the product and plug it in as depicted. We advise using non-electrically conductive tweezers to change how the jumper is fastened.



Enable PoC (Read above Warning before proceeding):

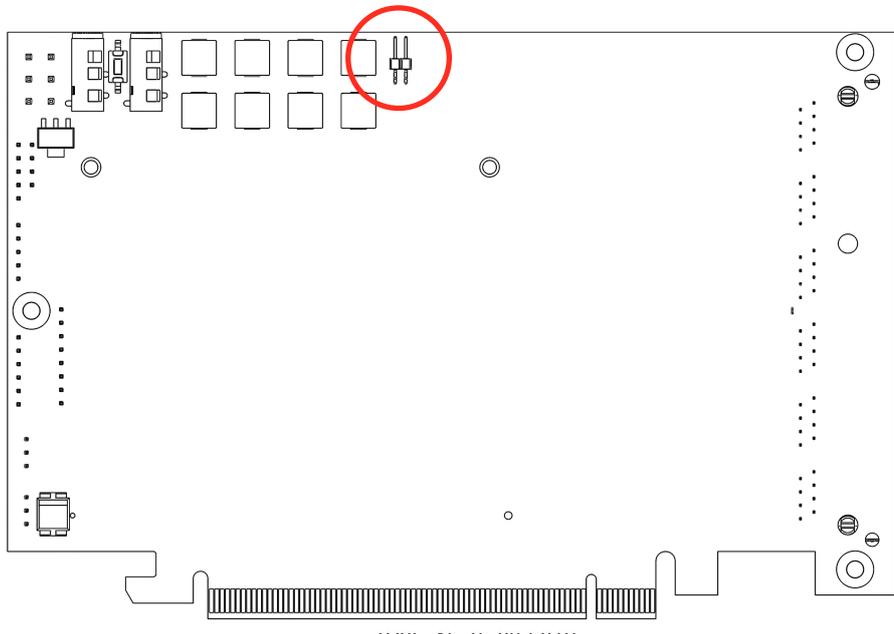
If you would like to enable PoC for the advoli™ TA6 Performance graphics card, note that the product seizes to be a HDBaseT compliant and certified product and should not be used with such products other than those approved in this document. To enable PoC remove the jumper from its default position and place it so that the jumper covers both protruding pins as depicted in the image below. Only do this when the graphics card is taken out of a computer/system and has no connected power.



+ **Note:** Power over Cable will enable 24V 0.5A on each of the RJ45 connector channels.

No Jumper:

When no jumper is used, the back of the graphics card will look as depicted in the illustration below and the graphics card will function as a HDBaseT compliant graphics card:



REGULATORY COMPLIANCE

The advoli™ TA6 Performance 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 Performance 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 Performance graphics card is properly grounded and connected to the chassis.

FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment

In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment.

Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception.

CE CONFORMITY FOR EUROPEAN COUNTRIES

The device complies with the EMC Directive 2014/30/EU and Low Voltage directive 2014/35/EU.

The following information is only for EU-member states:

The mark is in compliance with the Waste Electrical and Electronic Equipment Directive 2012/19/EU (WEEE).

The mark indicates the requirement NOT to dispose the equipment including any spent or discarded batteries or accumulators as unsorted municipal waste, but use the return and collection systems available.

If the batteries, accumulators and button cells included with this equipment, display the chemical symbol Hg, Cd, or Pb, then it means that the battery has a heavy metal content of more than 0.0005% Mercury or more than, 0.002% Cadmium, or more than 0.004% Lead.

FOR CANADA

CAN ICES-3 (B)/NMB-3(B)

DECLARATION OF RoHS2 COMPLIANCE

This product has been designed and manufactured in compliance with Directive 2011/65/EU of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS2 Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:

Restricted Substance	Maximum Threshold Limit
Cadmium and its compounds	100 ppm (0.01 weight %)
Mercury and its compounds	1000 ppm (0.1 weight %)
Hexavalent chromium and its compounds	1000 ppm (0.1 weight %)
Lead and its compounds	1000 ppm (0.1 weight %)
Polybrominated biphenyls (PBB)	1000 ppm (0.1 weight %)
Polybrominated diphenyls (PBDE)	1000 ppm (0.1 weight %)
Bis(2-Ethylhexyl) phthalate (DEHP)	1000 ppm (0.1 weight %)
Benzyl butyl phthalate (BBP)	1000 ppm (0.1 weight %)
Dibutyl phthalate (DBP)	1000 ppm (0.1 weight %)
Diisobutyl phthalate (DIBP)	1000 ppm (0.1 weight %)

Certain components of products as stated above are exempted under the Annex III of the RoHS2 Directives. Lead as an alloy element in aluminium containing up to 0.4% lead by weight. Copper alloy containing up to 4% lead by weight. Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead). Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound.

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

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