

## SAPPHIRE HD 5000 SERIES The Game Has Changed

### Sapphire HD 5970

Engine Clock	725MHz
Memory Clock, Effective	4,000MHz
Memory	2GB GDDR5
Number of Stream Processors	2x1,600
Outputs	DP, 2xDVI



### Sapphire Vapor-X HD 5870

Engine Clock	850MHz
Memory Clock, Effective	4,800MHz
Memory	1GB GDDR5
Number of Stream Processors	1,600
Outputs	DP, HDMI, 2xDVI



### Sapphire HD 5850

Engine Clock	725MHz
Memory Clock, Effective	4,000MHz
Memory	1GB GDDR5
Number of Stream Processors	1,440
Outputs	DP, HDMI, 2xDVI



### Sapphire Vapor-X HD 5770

Engine Clock	850MHz
Memory Clock, Effective	4,800MHz
Memory	1GB GDDR5
Number of Stream Processors	800
Outputs	DP, HDMI, 2xDVI



### Sapphire HD Vapor-X HD5750

Engine Clock	700MHz
Memory Clock, Effective	4,600MHz
Memory	1GB GDDR5
Number of Stream Processors	720
Outputs	DP, HDMI, 2xDVI



### Sapphire HD 5670

Engine Clock	750MHz
Memory Clock, Effective	4,000MHz
Memory	1GB GDDR5
Number of Stream Processors	400
Outputs	DP, HDMI, DVI



### Sapphire HD 5570

Engine Clock	650MHz
Memory Clock, Effective	1,800MHz
Memory	1GB GDDR3
Number of Stream Processors	400
Outputs	DP, DVI, VGA



### Sapphire HD 5450

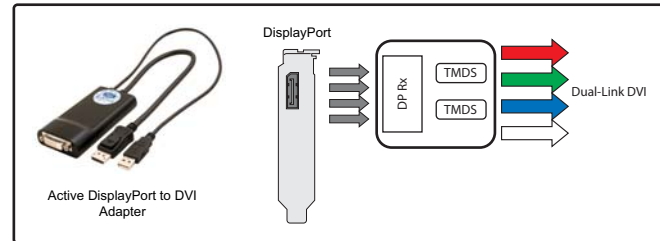
Engine Clock	650MHz
Memory Clock, Effective	1,600MHz
Memory	1GB GDDR3
Number of Stream Processors	80
Outputs	DP, DVI, VGA

## Active DisplayPort to DVI Adapter

It's important to remember that it's not just the form factor (physical shape) of the DisplayPort (DP) and DVI connectors that are different, the electrical display signal is very different as well. Passive adapters contain nothing but connectors and cables. They do not change the electrical format of the signal in any way.

In the case of Eyefinity across three monitors, all of the possible DVI signals are used up on the other two DVI or HDMI (HDMI video signals are the same as DVI signals) outputs so the board can only output a DP signal from the DP connector. Passing this signal to a DVI monitor (by using a passive adapter) will not work as the DVI monitor will not be able to interpret and decode the DP signal to create a picture.

Sapphire Active DisplayPort to DVI Adapter changes the connector form factor and corrects electrical signal to the third DVI monitor.



### Tested Games

A large number of applications and games will work with Sapphire ATI Eyefinity technology, some of them are listed here.

Assassins Creed, Age of Conan, Battlefield 2142, Battleforge, Call of Duty 4 Modern Warfare, Call of Juarez: Bound in Blood, Crysis, DiRT 2, Half-Life 2, Harry Potter Half Blood Prince, Star Wars Battlefront, Tom Clancy's H.A.W.X.....and many more.

For a list of validated and ready to use software, visit <http://support.amd.com/us/eyefinity/Pages/eyefinity-software.aspx>

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## Sapphire ATI Eyefinity Technology



In the past, multi-display systems catered to professionals in financial, gas and oil, and medical industries where multi-display systems are not desirable, but a necessity.

Expand your view of gaming, productivity, and entertainment and discover a new realm of panoramic computing with Sapphire ATI Eyefinity multiple-display technology. With the introduction of new Sapphire HD5000 series graphic cards which are compliant with next-generation DirectX® 11 and ATI Eyefinity Technology with DisplayPort connectivity, the Sapphire HD5000 series graphics cards enable a single GPU to support up to three independent display outputs simultaneously.

The most popular LCD monitor has a resolution of 1,920 x 1,080. With three monitors, a single Sapphire HD5000 series graphics card is able to deliver 5,760 x 1,080 resolutions when the monitors are placed in landscape display group.

Sapphire ATI Eyefinity Technology supporting up to six monitors on a single GPU is scheduled to be released in the future.

### Multi-Displays Support with EYEFINITY



Single Display





## Sapphire ATI Eyefinity Technology Benefits

### Gaming - Immerse yourself in game play:

- Get a commanding view of the action, and enjoy more control in real-time strategy games.
- Detect enemies sooner, react faster, and survive longer in first-person-shooter games.
- See enemy aircraft with peripheral vision, and fly with greater spatial awareness in flight combat simulators.
- Eliminate blind spots and feel a heightened sense of speed in racing games.

### Productivity - Helps you get more done:

- Optimize productivity by increasing PC desktop workspace with multiple high-resolution monitors.
- Manage multitasking more efficiently, and view more data, applications, and images at once.
- Avoid time-wasting application-switching, window-sorting, mouse-clicking, and scrolling.

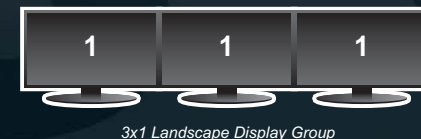
### Entertainment - Maximize your leisure time:

- Group multiple monitors into a large integrated display surface for the ultimate wide-screen home theater display.
- View TV sports, movies, or video entertainment on one monitor while viewing online stats, Internet pages, or games on other displays.



## Display Configurations

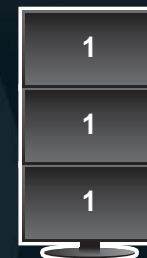
Sapphire ATI Eyefinity supports various Display Group combinations. For more combinations, visit <http://www.amd.com/us/products/technologies/eyefinity/Pages/eyefinity.aspx>



3x1 Landscape Display Group



3x1 Portrait Display Group



1x3 Landscape Display Group

### Display Combinations

The initial Sapphire ATI Eyefinity technology will support a maximum of three independent display outputs via a combination of two DVI, HDMI or VGA with one DisplayPort monitor.

Example configurations based on a graphics card with four display outputs are as follows:

	DVI Connector	DVI Connector	DP Connector	HDMI Connector
Example #1	Yes	Yes	Yes	No
Example #2	Yes	No	Yes	Yes
Example #3	No	Yes	Yes	Yes