

AMD RADEON

HD 6950

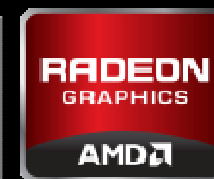
1GB
GDDR5



Main Features

■ Date: 2011/2/11

- **AMD RADEON HD 6950 GPU (Cayman PRO)**
- **OC to 870MHz (std: 800MHz)**
- **GIGABYTE WINDFORCE™ 3X cooling design**
(with Vapor Chamber & 8mm pure copper heat pipe*2)
- **Temperature: 17% cooler than stock fan**
- **Power phase: 6 phase + 2 phase (std: 4+2 phase)**



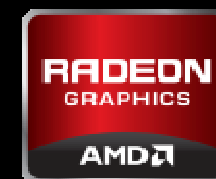
- AMD's 3rd generation TeraScale engine
- 1GB of GDDR5 memory
- 256-bit memory interface
- 40nm fabrication process
- Supports OpenGL 4.1** / Shader Model 5.0
- AMD HD3D technology
- AMD Eyefinity Technology
- AMD CrossFireX™
- Support Native HDMI 1.4a (with 3D over HDMI)
- Support Displayport 1.2

**OpenGL 4.1 :Driver support scheduled for 2011



Specification

■ Date: 2011/2/11



GPU	Radeon HD 6950
Core Clock	870 MHz (std:800 MHz)
Memory Clock	5000 MHz
Memory Size	1GB GDDR5
Bus Type	PCI Express 2.1
Memory Bus	256-bit
Stream Processors	1408
Memory type	32Mx32
DirectX 11	Yes
DVI Port	DVI-I / DVI-D
DisplayPort	Yes
HDMI	Yes
HDCP	Yes
3D'Vangtage P	
3D'Vangtage X	

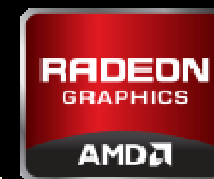


Outlook

■ Date: 2011/2/11

Radeon HD 6950 GPU

- DirectX 11 & OpenGL 4.1
- Shader Model 5.0



8mm Pure Copper
Heat pipe *2

AMD Crossfire



Displayport

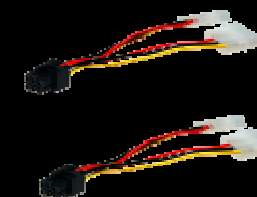
HDMI 1.4a

Dual-Link DVI-I



Single-Link
DVI-D

6 Pin Power
Connector*2

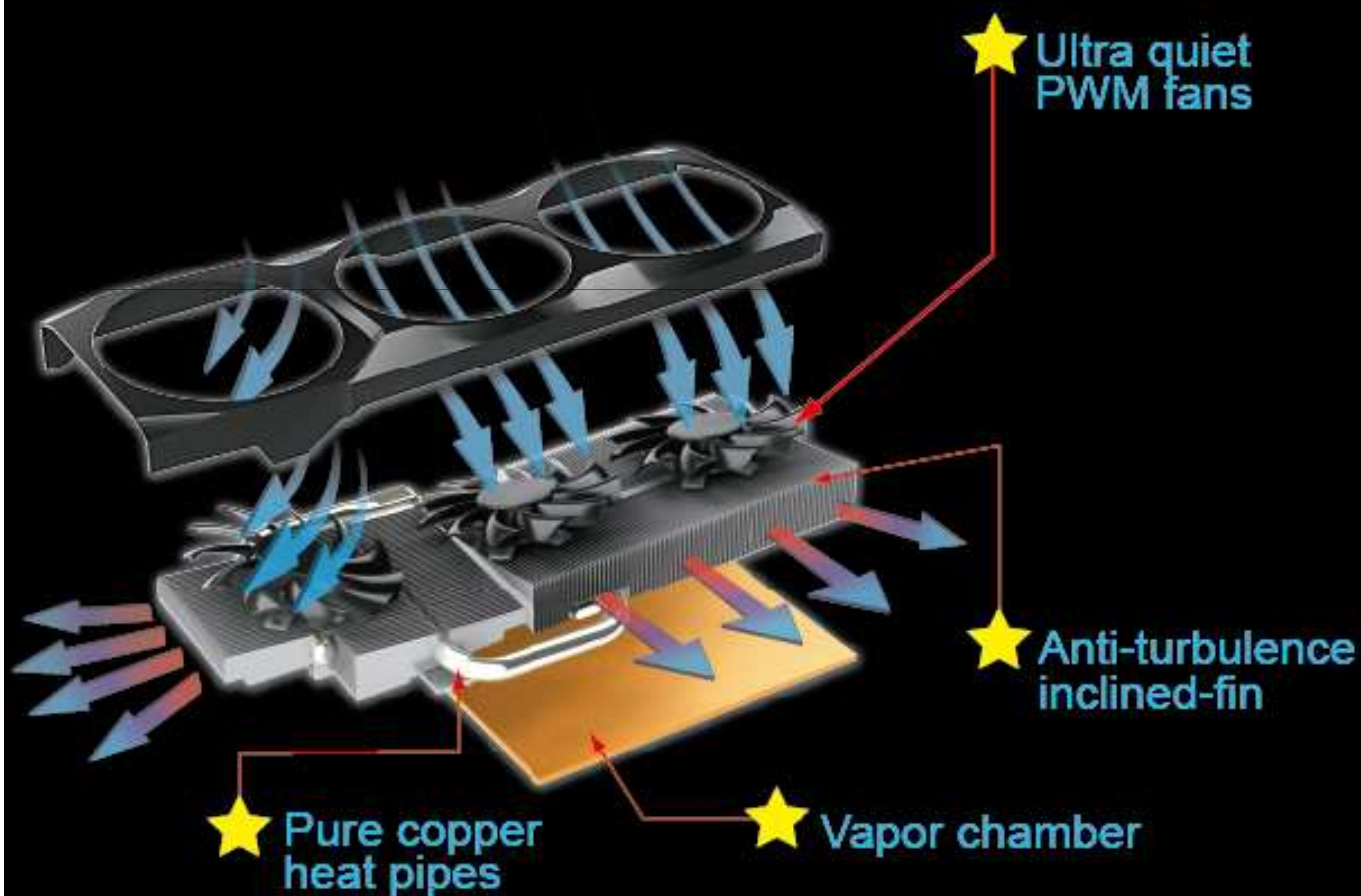


**500 Watt or greater power supply with two 2x3-pin PCIe® power connector
**OpenGL 4.1 :Driver support scheduled for 2011

WINDFORCE™ 3X

■ Date: 2011/2/11

3x airflow performance,
17% cooler than stock fan

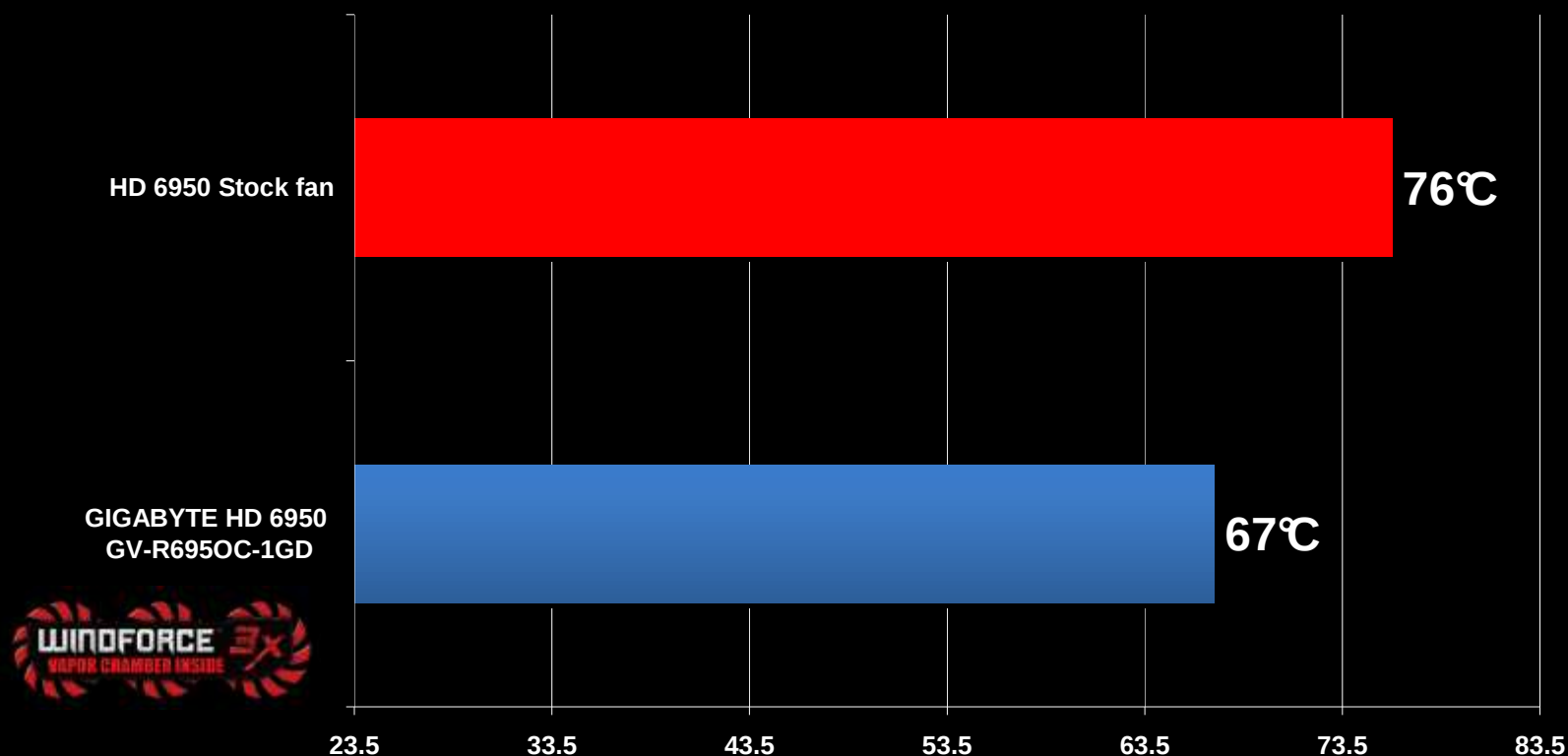


Temperature Comparison-3D Mode (Furmark)

■ Date: 2011/2/11

MODEL NAME	STD HD 6950
GCLK(MHZ)	800
MCLK(MHZ)	5000
Cooling	Stock fan
Test Program	Furmark
Ambient Temp	76 °C
Result	pass

MODEL NAME	GV-R695OC-1GD
GCLK(MHZ)	870 (std:800)
MCLK(MHZ)	5000
Cooling	WINDFORCE™ 3X
Test Program	Furmark
Ambient Temp	67 °C
Result	pass



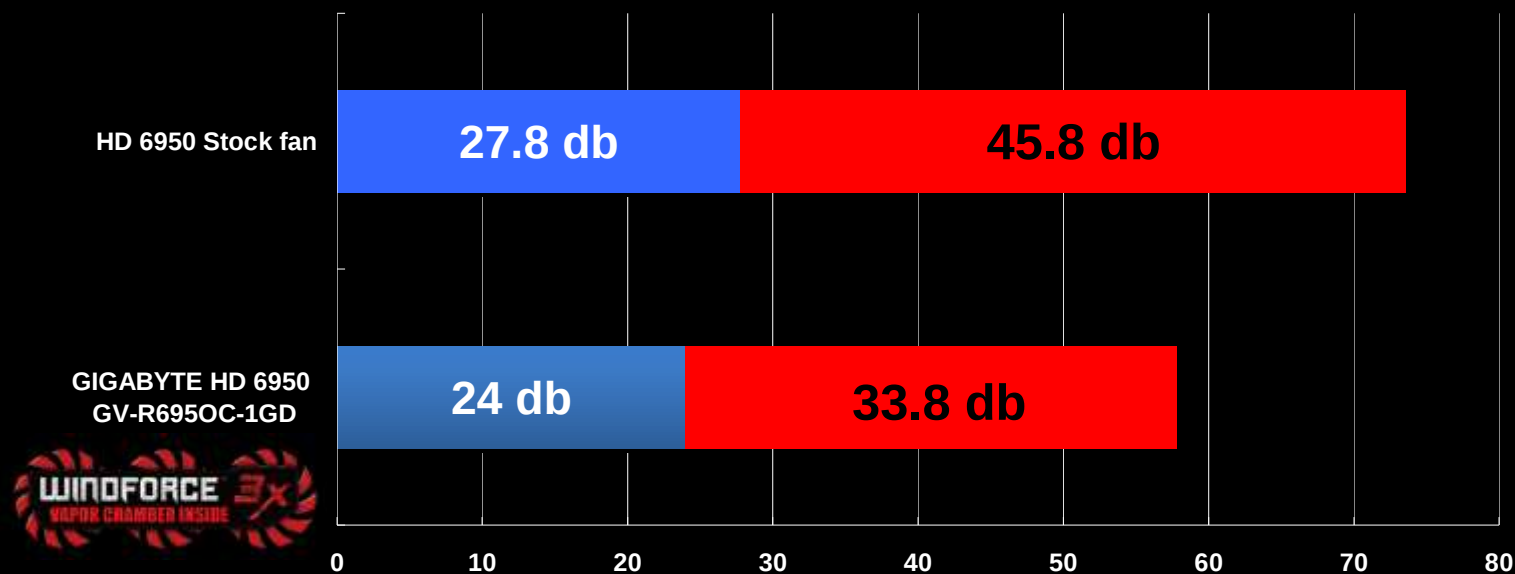
* $[(67-23.5)-(76-23.5)] / (76-23.5) = -17\%$ Cooler by 17%

Noise Comparison- Furmark

■ Date: 2011/2/11

MODEL NAME	STD HD 6950
GCLK(MHZ)	800
MCLK(MHZ)	5000
Cooling	Stock fan
Test Program	Furmark
Noise: 2D	27.8 db
Noise: 3D (full loading)	63.1 db
Result	pass

MODEL NAME	GV-R695OC-1GD
GCLK(MHZ)	870 (std:800)
MCLK(MHZ)	5000
Cooling	WINDFORCE™ 3X
Test Program	Furmark
Noise: 2D	24 db
Noise: 3D (full loading)	45.3 db
Result	pass



	GIGABYTE HD 6950 GV-R695OC-1GD	HD 6950 Stock fan
■ Noise: 3D Mode (db)	33.8	45.8
■ Noise: 2D Mode (db)	24	27.8