

### Colorful550Ti-1024M D5 (N550-105-N01)

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**Model Name:**

**Colorful550Ti-1024M D5 (N550-105-N01)**

**Brief Information:**

**Memory:** 1024MB / 192bit, GDDR 5





**Clocks (core/memory):** 900MHz / 4100MHz

**Video Ports:** DVI + DVI + Mini HDMI

**TDP:** 116W

**DirectX:** 11

## Specification:







<b>Chipset</b>	<b>GPU</b>	<b>NVIDIA GeForce GTX 550 (GF116)</b>
	<b>Manufacturing Process</b>	<b>40 nm</b>
	<b>CUDA cores</b>	<b>192</b>
<b>Clock Speeds</b>	<b>Core Clock</b>	<b>900 MHZ</b>
	<b>Shader Clock</b>	<b>1800 MHz</b>
	<b>Memory Clock</b>	<b>4100 MHZ</b>
<b>Memory</b>	<b>Memory Size</b>	<b>1024 MB</b>
	<b>Memory Interface</b>	<b>192 BIT</b>
	<b>Memory Type</b>	<b>GDDR 5</b>
<b>Interface and Connectors</b>	<b>Video Outport</b>	<b>DVI + DVI + Mini HDMI</b>
	<b>PCI Express</b>	<b>2.0</b>
	<b>Additional Power connectors</b>	<b>1 * 6 pin</b>
	<b>SLI</b>	<b>2-way</b>
<b>Thermal</b>	<b>Board Power (Idle / Load)</b>	<b>25.2 W / 141.3 W</b>
	<b>TDP (NVIDIA)</b>	<b>116 W</b>
	<b>Temperature (Idle / Load)</b>	<b>30°C (GPU-Z) / 62°C (Furmark) <sup>*Note1</sup></b>
<b>Cooling</b>	<b>Type</b>	<b>With Fan (9 cm in diameter)</b>
	<b>Fan Speed</b>	<b>900-2500 RPM ± 10%</b>
	<b>Acoustical Noise</b>	<b>21-34.5 dBA <sup>*Note2</sup></b>
	<b>Fan Power Connector</b>	<b>4-pin, PWM</b>
<b>3D API</b>	<b>DirectX /Shader Model</b>	<b>11 / 5.0</b>
	<b>OpenGL</b>	<b>4.1</b>
<b>Others</b>	<b>Featured Technologies</b>	   
	<b>Form Factor</b>	<b>Dual Slot</b>
	<b>Packaging</b>	<b>1* Graphics Card, 1* User's Manual, 1* Driver CD, 1* 6-pin Power Adapter cable</b>

**Note 1:** The temperature is read from the software like GPU-Z and Furmark, and the data may not exactly show the actual electrical thermal status of the graphics card. Usually when tested by the infrared thermometer, the figures are always higher

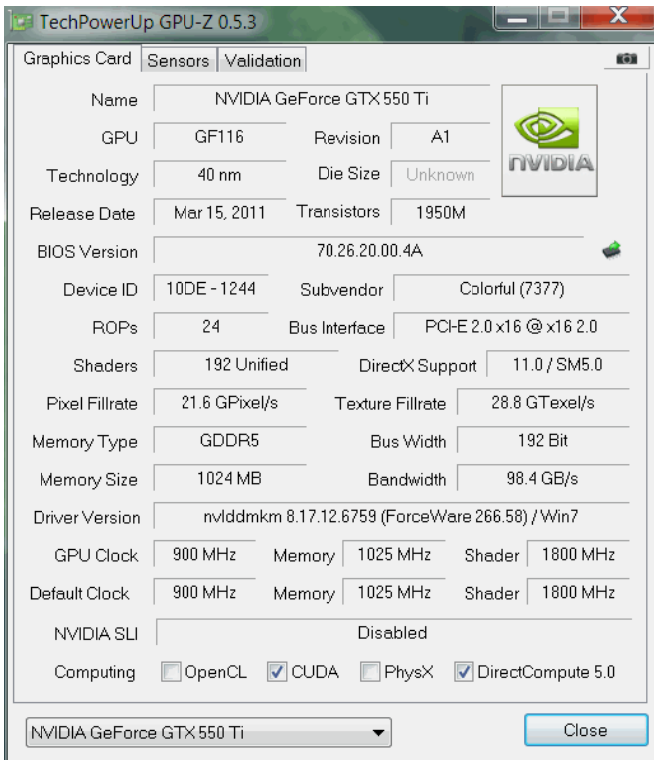
than those shown by software. However, considering few DIY users may use an infrared thermometer at hand to test the card's temperature, I give the software-based data here for reference, which should be more meaningful to most users.

**Note 2:** The acoustical data is the tested noise of the cooling Fan only, and the graphics card especially equipped in a particular PC case running in a certain room, the acoustical noise may be higher than the given figures here.

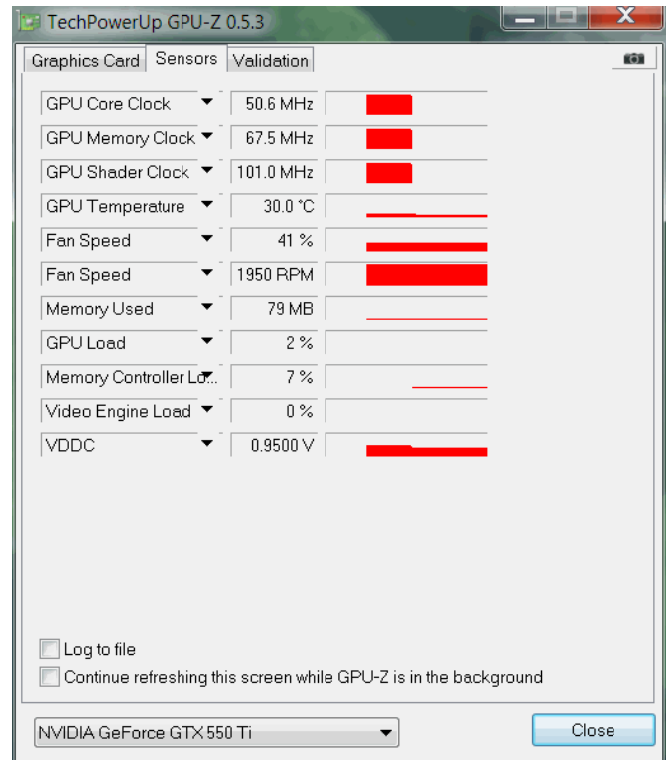
## Parts of the graphics card:

## GPU-Z and FurMark Reference:



GPU-Z of 550 Ti: Graphics Card



Idle Temperature:30°C



FurMark Full load: Max Temperature 62°C

## Windows 7 Experience Index:

**Graphics: 7.3      Gaming: 7.3**

Rate and improve your computer's performance

The Windows Experience Index assesses key system components on a scale of 1.0 to 7.9.

Component	What is rated	Subscore	Base score
<b>Processor:</b>	Calculations per second	5.9	<p>Determined by lowest subscore</p>
<b>Memory (RAM):</b>	Memory operations per second	5.9	
<b>Graphics:</b>	Desktop performance for Windows Aero	7.3	
<b>Gaming graphics:</b>	3D business and gaming graphics performance	7.3	
<b>Primary hard disk:</b>	Disk data transfer rate	5.9	

Platform: Intel Pentium E5300/ Colorful C.P45 TWIN/ 2\*Kingston 2G DDR3 1333MHz/ Seagate ST3500418AS 500G/ Windows 7 Ultimate 32bit



**Performance (For reference only):**

Graphics card		GTX 460	GTS 450	GTX 550 Ti	GTX 550 Ti OC	GTX 560 Ti	HD 5750	HD 5770	HD 6790	HD 6850	HD6870
Memory (MB/BIT)		1024/256	1024/128	1024/192	1024/192	1024/256	1024/128	1024/128	1024/256	1024/256	1024/256
Clock(MHZ, core/SP/memory)		675/1350/3600	783/1566/3600	900/1800/4100	1025/2000/4400	820/1640/4000	700/700/4600	850/850/4800	840/840/4200	820/820/4400	900/900/4200
Driver		260.99	260.99	266.54	266.2	266.22	8.801	8.801	8.84	8.801	8.801
Benchmarks	3DMARK06	DX9/1280x1024	17799	15475	16583	17191	18628	14557	15951	16514	18075
	3DMark Vantage	DX10/ Performance	15886	10627	12301	13970	21079	8838	10761	12816	14331
		DX10/ Extreme	6989	4403	5192	5924	9481	3681	4636	5343	6401
	3DMARK 11	DX11/ Performance	3208	2118	2489	2791	3818	2190	2624	3177	3688
		DX11/ Extreme	1049	681	812	904	1352	706	868	956	1197
	Heaven Benchmark 2.1	DX11/High/1680x1050/Normal/0AA (fps/scores)	36.0/907	23.8/598	27.1/681	30.9/779	48.3/1217	18.7/472	21.7/546	27.1/684	31.3/790
	DX11/High/1920x1200/Normal/0AA (fps/scores)	30.5/769	19.9/502	23.4/590	26.3/662	41.2/1039	16.4/412	19.0/479	23.5/591	27.5/694	
Games	Call of Duty-Black Ops	1920x1200 AAA	89	58	72	80	91	51	54	81	87
	Crysis V1.21	DX10/High/1920x1200/0 AA	41.29	29.2	33.615	36.465	37.02	30.975	36.61	42.03	51.51
	Tom Clancy's HAWX	DX10/High/1680x1050/0 AA	101	67	80	90	105	61	72	79	96
		DX10/High/1920x1200/8x AA	65	37	51	58	--	39	44	49	69
	Just Cause 2	DX10/High/1680x1050/2AF	70.86	47.28	56.64	63.4	63.31	51.7	60.49	66.11	81.91
		DX10/High/1920x1200/2AF	56.2	37.56	45.14	50.74	54.91	43.24	49.67	55.27	68.67
Dirt2	DX11/High/1680x1050/0 AA	98.3	54.4	78.3	86.4	88.1	57.4	65.1	71.5	85.2	
	DX11/High/1920x1080/4xMSAA	67.4	42.4	63.6	70.6	65.4	49.3	53.8	60.4	73.3	

Note: 91\* means the max FPS limitation of the game is set at 91fps.

Test Platform	
VGA Driver:	197.45
Main Board /Chip /Driver:	ASUS P6T/X58/6.1.7600.16385
System BIOS:	V0707
CPU:	Intel core i7 920/2.67GHz
SIMM /DIMM:	Corsair 2G×3 DDR3 1333Hz
Hard Disk Drive:	WD 1001FALS 1.0TB
Monitor:	DELL 3008 WFP-HC
POWER	Corsair CMPSU-620HX
OS:	Windows 7 Ultimate6.1(7600)