

Colorful560-1024M D5 (N560-105-N13)

**The card has the same PCB cooler and clocks as N560-105-N12, but is shipped in bulk packaging.*

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Model Name:

Colorful560-1024M D5 (N560-105-N13)

Brief Information:

Memory: 1024MB / 256bit, GDDR 5
Clocks (core/memory): 810MHz / 4000MHz ,
Video Ports: DVI + DVI + Mini HDMI
TDP: 150W
DirectX: 11

Specification:

Chipset	GPU	NVIDIA GeForce GTX 560 (GF114)
	Manufacturing Process	40 nm
	CUDA cores	336
Clock Speeds	Core Clock	810MHZ
	Shader Clock	1620 MHz
	Memory Clock	4000 MHZ
Memory	Memory Size	1024 MB
	Memory Interface	256 BIT
	Memory Type	GDDR 5
Interface and Connectors	Video Output	DVI + DVI + Mini HDMI
	PCI Express	2.0
	Additional Power connectors	2 * 6 pin
	SLI	2-way
Thermal	Board Power (Idle / Load)	16.1 W / 179.9 W
	TDP (NVIDIA)	150 W
	Temperature (Idle / Load)	31°C (GPU-Z) / 76°C (Furmark) ^{*Note1}
Cooling	Type	Fan (9cm)
	Fan Speed	900- 2500±10%
	Acoustical Noise	21-34.5 dBA ^{*Note2}
	Fan Power Connector	4-pin, PWM
3D API	DirectX /Shader Model	11 / 5.0
	OpenGL	4.2 ^{*Note3}
Others	Featured Technologies	    
	Form Factor	Dual-Slot
	Packaging	1* Graphics Card, 1* User's Manual, 1* Driver CD, 2* 6-pin Power Adapter cables, Bulk Packaging

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.

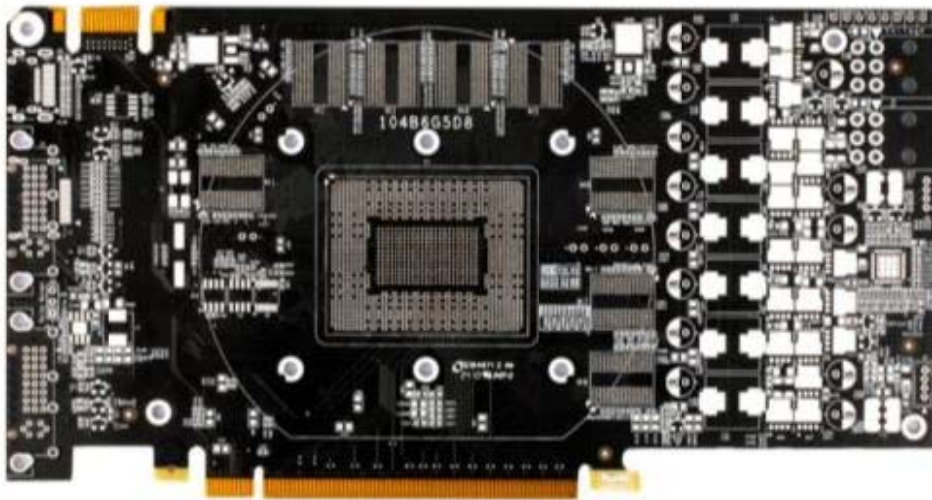
Note 3: OpenGL 4.2 is supported with the latest 280 series driver.

Parts of the graphics card:

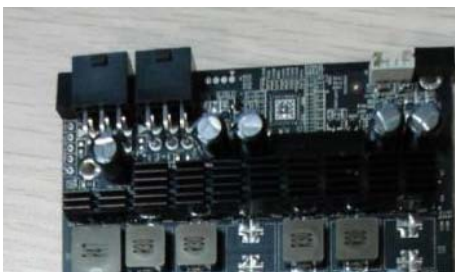


GPU of GTX 560: GF114-325-A1



Silver Plating PCB

Colorful uses the particular Silver Plating PCB (above) for GTX 560, lower resistivity than the general copper plating PCB. In an electric circuit, the greater the resistance is, the weaker the electric current will be, and vice versa. So Colorful GTX 560 has better performance and better over clocking capability over the public version GTX 560 or other cards from the competition brands.



2 6-pin Power Connectors



SLI Bridge

GTX 560 supports 2-way SLI, and when SLI is enabled it also supports gaming across three 3D displays with resolutions up to 2560x1600.

Cooling System



The cover and PCB: 9cm fan



The sink: two heat pipes

GPU-Z Reference:

Graphics Card			
Name	NVIDIA GeForce GTX 560		
GPU	GF114	Revision	A1
Technology	40 nm	Die Size	332 mm ²
Release Date	May 17, 2011	Transistors	1950M
BIOS Version	7024.30.00.61		
Device ID	10DE - 1201	Subvendor	Colorful (7377)
ROPs	32	Bus Interface	PCI-E x16 @ x16
Shaders	336 Unified	DirectX Support	11.0 / SM5.0
Pixel Fillrate	25.9 GPixel/s	Texture Fillrate	45.4 GTexel/s
Memory Type	GDDR5	Bus Width	256 Bit
Memory Size	1024 MB	Bandwidth	128.0 GB/s
Driver Version	nvlddmkm 8.17.12.7048 (ForceWare 280.26) / Win7		
GPU Clock	810 MHz	Memory	1000 MHz
Shader	1620 MHz		
Default Clock	810 MHz	Memory	1000 MHz
Shader	1620 MHz		
NVIDIA SLI	Disabled		
Computing	<input checked="" type="checkbox"/> OpenCL	<input checked="" type="checkbox"/> CUDA	<input type="checkbox"/> PhysX
	<input checked="" type="checkbox"/> DirectCompute 5.0		

GPU-Z of GTX 560: Graphics Card

Sensors			
GPU Core Clock	50.6 MHz		
GPU Memory Clock	67.5 MHz		
GPU Shader Clock	101.0 MHz		
GPU Temperature	31.0 °C		
Fan Speed (%)	40 %		
Fan Speed (RPM)	1020 RPM		
Memory Used	75 MB		
GPU Load	1 %		
Memory Controller Load	5 %		
Video Engine Load	0 %		
VDDC	0.8750 V		

GPU-Z of GTX 560: Sensors



FurMark Full load: Max Temperature 76°C

Windows 7 Experience Index:

Graphics: **7.6**

Gaming: **7.6**

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
Processor:	Calculations per second	6.0	<p>Determined by lowest subscore</p>
Memory (RAM):	Memory operations per second	6.0	
Graphics:	Desktop performance for Windows Aero	7.6	
Gaming graphics:	3D business and gaming graphics performance	7.6	
Primary hard disk:	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 570	GTX 460	GTX 560	GTX 560 OC	GTX 560 OC2	GTX 560 Ti	HD6870	HD 6850	HD 6950	
Memory (MB/BIT)		1280/320	1024/256	1024/256	1024/256	1024/256	1024/256	1024/256	1024/128	2048/256	
Clock(MHZ, Core/SP/Memory)		750/1500/3900	675/1350/3600	810/1620/4008	830/1660/4200	850/1700/4200	820/1640/4000	900/900/4200	820/820/4400	800/800/5000	
Driver		263.09	260.99	270.48	270.48	270.48	266.77	8.801	8.801	8.801	
Benchmarks	3DMARK06	DX9/1280x1024	18886	17799	18257	18368	18490	18529	18420	18075	18658
	3DMark Vantage	DX10/Performance	26894	15886	16222	--	16815	21125	16032	14331	17446
		DX10/Extreme	13186	6989	8277	--	8671	9484	7591	6401	9179
	3DMARK 11	DX11/Performance	5141	3208	3818	3908	3980	4172	4161	3688	4526
		DX11/Extreme	1724	1049	1258	1291	1320	1397	1404	1197	1570
Heaven Benchmark 2.1	DX11/High/1680x1050/Normal/9AA (fps/scores)	59.8/1506	36.0/907	42.9/1080	43.9/1106	44.7/1125	48.1/1212	34.1/860	31.3/790	50.4/1270	
	DX11/High/1920x1200/Normal/9AA (fps/scores)	50.9/1282	30.5/769	36.6/922	37.7/949	38.7/974	41.6/1047	30.0/755	27.5/694	44.7/1125	
Games	Crysis V1.21	DX10/High/1024x768/0 AA	72.5	68.07	79.26	79.76	79.8	73.02	73.22	73.07	73.195
		DX10/High/1920x1200/0 AA	59	41.29	54.645	56.03	57.11	59.875	57.605	51.51	62.555
	Tom Clancy's HAWX	DX10/High/1680x1050/0 AA	151	101	117	124	126	129	105	96	106
		DX10/High/1920x1200/8x AA	105	65	78	78	79	86	73	69	76
	Just Cause 2	DX10/High/1680x1050/2AF	122.43	70.86	86.16	87.4	90.44	97.02	89.47	81.91	95.57
DX10/High/1920x1200/2AF		98.52	56.2	69.31	71.12	73.32	77.5	77.27	68.67	83.9	
Dirt2	DX11/High/1680x1050/0 AA	113.8	98.3	112.1	112.5	117.1	122.6	90.9	85.2	92.3	
	DX11/High/1920x1080/4xMSAA	110.6	67.4	93.6	95.5	96.5	100.9	78.8	73.3	80.9	



Note: -- denotes the temporary lack of cards in tests.

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)