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Product Info

GeForce GTX 650

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Supported Technologies

✓ DirectX 11	More >	
✓ PhysX	More >	
✓ CUDA	More >	
✓ 3D Vision	More >	

Product Family

GeForce GTX 690
GeForce GTX 680
GeForce GTX 670
GeForce GTX 660 Ti
GeForce GTX 660
GeForce GTX 650 Ti
GeForce GTX 650
GeForce GTX 660 (OEM)
GeForce GT 645 (OEM)
GeForce GT 640
GeForce GT 640 (OEM)
GeForce GT 630
GeForce GT 630 (OEM)
GeForce GT 620
GeForce GT 620 (OEM)
GeForce GT 610
GeForce 605 (OEM)

Specifications

Note: The below specifications represent this GPU as incorporated into NVIDIA's reference graphics card design. Graphics card specifications may vary by Add-in-card manufacturer. Please refer to the Add-in-card manufacturers' website for actual shipping specifications.

GPU Engine Specs:

CUDA Cores	384
Graphics Clock (MHz)	1058
Texture Fill Rate (billion/sec)	33.9

Memory Specs:

Memory Clock	5.0 Gbps
Standard Memory Config	1024 MB
Memory Interface	GDDR5
Memory Interface Width	128-bit
Memory Bandwidth (GB/sec)	80.0

Feature Support:

OpenGL	4.3
Bus Support[1]	PCI Express 3.0
Certified for Windows 7	Yes
Supported Technologies	DirectX 11, PhysX, CUDA, 3D Vision, TXAA, FXAA, Adaptive VSync, NVIDIA Surround
3D Vision Ready	Yes

Display Support:

Multi Monitor	4 Displays
Maximum Digital Resolution[2]	4096x2160
Maximum VGA Resolution	2048x1536
HDCP	Yes
HDMI[3]	Yes
Standard Display Connectors	One Dual Link DVI-I, One Dual Link DVI-D, One HDMI
Audio Input for HDMI	Internal

Standard Graphics Card Dimensions:

Length	5.70 inches
Height	4.38 inches
Width	Dual-width

Thermal and Power Specs:

Maximum GPU Temperature (in C)	98 C
Maximum Graphics Card Power (W)	64 W
Minimum System Power Requirement (W)[4]	400 W
Supplementary Power Connectors	One 6-pin

3D Vision Ready

3D Blu-Ray	Yes
3D Gaming	Yes
3D Photos	Yes

1 - GeForce GTX 650 supports PCI Express 3.0. The Intel X79/SNB-E PCI Express 2.0 platform is only currently supported up to 5GT/s (PCIE 2.0) bus speeds even though some motherboard manufacturers have enabled higher 8GT/s speeds.

2 - 4096x2160 resolution supported through a single HDMI connector. 4096x2160 resolution is not supported with two DVI connectors.

3 - Support for HDMI including GPU accelerated Blu-ray 3D support (Blu-ray 3D playback requires the purchase of a compatible software player from CyberLink, ArcSoft, Corel, or Sonic), x.v.Color, HDMI Deep Color, and 7.1 digital surround sound will be added in a Release 260 driver. Upgrade your GPU to full 3D capability with NVIDIA 3DTV Play software, enabling 3D gaming, picture viewing and 3D web video streaming. See www.nvidia.co.uk/3dtv for more details.

4 - Not applicable to OEM or System Builder configurations - contact system manufacturer for more details. Minimum PSU requirements are based on estimated total system power. Lower power configurations are possible using lower total power system configurations (CPU, Storage, Memory).

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