

# PNY

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# GEFORCE® GTX 680 4GB

## PNY Part # VCGGTX6804XPB

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## Game-Changing Innovation

The GeForce® GTX 680 delivers more than just state-of-the-art features and technology. It gives you truly **gaming-changing performance** that taps into the power next generation GeForce® Kepler-architecture to redefine smooth, seamless, lifelike gaming. NVIDIA GPU Boost technology that dynamically maximize clock speeds to push performance to the new levels and bring out the best in every game. Ultra-smooth gaming with exciting new NVIDIA Adaptive V-Sync technology.

### Specifications

GPU:	GeForce® GTX 680
CUDA Cores:	1536
Core Speed:	1006 MHz
Boost Speed:	1058 MHz
Memory Size:	4096 MB GDDR5
Mem. Interface:	256 bit
Mem. Frequency:	6.0 Gbps
TDP:	195W-Active
SLI:	3-Way SLI
Multi-Screen:	4 Concurrent Screens* NVIDIA 3D Surround**
Outputs:	DVI-I DVI-D HDMI® 1.4a DisplayPort 1.2
Resolution:	2560 x 1600 (Digital)
Power Input:	2x 6 pin PCI-E Power
Bus Type:	PCI-Express 3.0 16x
UPC:	751492553320

### Key Features

NVIDIA® GPU Boost  
 NVIDIA® Adaptive Vertical Sync  
 NVIDIA® Surround™  
 Support for four concurrent displays including:

- Two Dual-Link DVI
- HDMI® 1.4a
- DisplayPort 1.2

Microsoft® DirectX® 11 with DirectCompute 5.0  
 NVIDIA® PhysX® technology  
 NVIDIA® 3D Vision®-Ready  
 3-way NVIDIA® SLI®-Ready  
 NVIDIA® CUDA® technology  
 PCI Express 3.0 support  
 OpenGL 4.3 support  
 OpenCL™ support

### Requirements

- PCI Express compliant motherboard with one dual-width x16 graphics slot
- Two 6-pin PCI Express supplementary power connectors
- Minimum 550W or greater system power supply (with a minimum 12V current rating of 38A)<sup>3</sup>
- 300 MB of available hard-disk space
- 2GB system memory (4GB or higher recommended)
- Microsoft Windows 7, Windows Vista, or Windows XP Operating System (32 or 64-bit)
- DVD-ROM drive or Internet connection for installation
- DVI, HDMI, DisplayPort or VGA compatible monitor

### Card Dimensions

10" x 4.376" Dual-Slot

### Box Dimensions

12.5" x 6.25" x 2.5"

Weight: 2.5 lbs.

### Box Contents

- GeForce® GTX 680 4GB graphics card
- Quick Installation Guide
- Installation DVD, which includes:
  - Detailed installation guide
  - NVIDIA® Graphics Drivers
  - NVIDIA® GeForce® Demos
  - PhysX™ System Software
- DVI-to-VGA adapter
- 6-pin PCIe to Molex Power Adapter



\*4- & 3- Screen Support only in Windows 8, Windows 7 and Windows Vista. Windows XP or earlier version will only support dual monitors.

\*\*NVIDIA® 3D SURROUND requires additional hardware, please see <http://www.NVIDIA.com/get3d> for detail information

\*\*\*PNY One-Year warranty will be extended to lifetime of the original purchaser upon completion of product registration. Product must be registered on PNY's website

<http://www.pny.com> within 90 days of purchase. Features and specifications subject to change without notice.

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