



# GEFORCE GTX 280 H<sub>2</sub>OC™

PCI EXPRESS® x16

**Thermo Intelligence™**  
water cooling solution

**1GB GDDR3**  
MEMORY

CHANNEL Part Number: **BFGGTX2801024H2OCWE** UPC: **876758002555**

The BFG **ThermoIntelligence™** water cooling solution offers exceptional thermal performance in a single slot design. Co-developed by BFG and Danger Den™, the ThermoIntelligence custom copper water block is totally silent and allows the GTX 280 GPU to be factory overclocked to the highest stable level—delivering **up to a 52°C** lower peak GPU operating temperature than reference cooling solutions.



## Specifications

- GPU: NVIDIA® GeForce® GTX 280
- Bus Type: PCI Express® 2.0 (Backward compatible with PCI Express®)
- Memory: 1GB (1024MB) GDDR3
- Core Clock: 680MHz (vs. 602MHz standard)
- Shader Clock: 1458MHz (vs. 1296MHz standard)
- Memory Data Rate: 2450MHz (vs. 2214MHz standard)
- Processor Cores: 240
- Shader Model: 4.0
- Texture Fill Rate: 54.4 Billion/sec.
- Memory Interface: 512-bit
- Memory Bandwidth: 156.8GB/sec.
- API Support: Microsoft® DirectX® 10 and lower, OpenGL® 2.1 and lower for Microsoft Windows®
- Display Connectors: 2 Dual-Link DVI-I, HDTV + TV Out
- RAMDACs: Dual 400MHz
- HDCP Capable: Yes, Dual-Link\*\*
- HDMI™ Capable: Yes
- NVIDIA® SLI® Support: Yes, 2-Way & 3-Way
- Card Dimensions: 10.5" (L) x 3.75" (W) x 1.5" (H)

## Included in Box

- BFG NVIDIA® GeForce® GTX 280 H<sub>2</sub>OC™ 1GB graphics card with ThermoIntelligence™ Water Cooling Solution
- Quick install guide
- DVI to VGA adapter
- DVI to HDMI™ adapter
- HDMI™ cable (6 ft.)
- S/PDIF audio cable (1 ft.)
- HDTV (component) breakout cable
- Dual 4-pin Molex® to single 6-pin PCI Express® power adapter
- Dual 6-pin PCI Express® to single 8-pin PCI Express® power adapter
- Two standard removable fittings (barbs) each for 3/8" and 1/2" inner diameter tubing
- Two micro removable fittings (barbs) for 2-way and 3-way NVIDIA SLI™ configurations
- Two removable plugs (pre-attached to the water block)
- Two tubing clamps each for 5/8" and 3/4" outer diameter tubing
- One 2" piece of 1/2" inner diameter tubing for use with the micro removable fittings
- Driver CD, which includes
  - > NVIDIA® Forceware® unified graphics driver
  - > Full multiple language installation manual .pdf

## Minimum System Requirements

- Internal or external PC water cooling system that has the capacity to dissipate 236W of heat for this graphics card (BFG recommends Danger Den™ brand kits)
- Water cooling system tubing with a 3/8" or 1/2" inner diameter
- 1GB of system memory (2GB recommended)
- CD or DVD-ROM drive
- 100MB of available hard disk drive space for basic driver installation
- Microsoft® Windows Vista™ or XP operating system (Windows Vista™ required for 3-Way NVIDIA SLI®)
- PCI Express® or PCI Express® 2.0-compliant system motherboard with one vacant PCI Express® x16 slot
- 575W PCI Express®-compliant system power supply with a combined 12V current rating of 42A or more\*\*\*
- One 8-pin and one 6-pin PCI Express® supplementary power connector -or- Two 6-pin PCI Express® and two 4-pin peripheral supplementary power connectors

**NOTE:** For the power requirements of multiple GeForce® GTX 280-based graphics cards in an NVIDIA SLI® configuration, please visit [www.bfgtech.com/slipower](http://www.bfgtech.com/slipower).

\* Product must be registered on [www.bfgtech.com](http://www.bfgtech.com) within thirty (30) calendar days of the original purchase date to activate the limited lifetime warranty or limited ten (10) year warranty. Upon registration the product is protected for the product's lifetime in the United States and Canada, and ten (10) years from the date of purchase in all countries outside of North America against defects in material and workmanship. Warranty coverage is subject to the provisions available at [www.bfgtech.com](http://www.bfgtech.com). Products not properly registered will be covered from the date of purchase by a two (2) year limited warranty in Europe and a one (1) year limited warranty in the United States and other countries. Proper registration includes submitting proof of purchase to BFG.

\*\* Requires other compatible components that are HDCP capable. Designed to meet the output protection management (HDCP) and security specifications of the HD DVD and Blu-ray Disc® formats, allowing the playback of encrypted movie content on PCs when connected to HDCP-compliant displays.

\*\*\* Minimum system power requirement based on a PC configured with an Intel Core®2 Extreme QX9650 processor

† Toll-free telephone technical support is available in the United States and Canada only. For customers outside of North America, a toll call will apply and your phone bill will reflect the charge. E-mail tech support is free and available to all customers.

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## LIFETIME WARRANTY\* 24/7/365 TECH SUPPORT†

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