AMD RADEON GRAPHICS

R9 290X LIGHTNING

MSI Graphics Card

Triple Force Architecture

- **Triple Level Signals** - Show the real-time GPU load by different colors.
- **TriFrozr Thermal Design** –Triple PWM fans with Independent Control System on
- **Pure Digital PWM Control** – Digitally controlled GPU, Memory and VDDCI

Twin BIOS & Enhanced Power

- **Twin BIOS** – Separated BIOS chips for regular use and LN2 overclocking
- **Enhanced Power -** 12 GPU phases and 3 Memory phases on a custom designed 12 layers PCB for amazing overclocking potential.

Military Class 4 Components

- Components pass MIL-STD-810G certification for the best stability and quality
- Equipped with CopperMOS, Hi-C CAPs, New SFC and All Dark Solid CAPs.

3X3 OC Kits

- **Triple Overvoltage**: Total control with GPU, Memory and PLL voltage adjustment
- **Triple Temp Monitor**: Real time Monitoring of GPU, Memory and PLL conditions.
- **V-Check point:** For direct and accurate read-out of GPU, memory and PLL voltage

Product Specification	
Product Name	R9 290X LIGHTNING
GPU	AMD Radeon R9 290X
Codename	Hawaii XT
Processors	2816 Units
Core Clock	1080 MHz
Memory Clock	5000 MHz
Memory Size	4GB GDDR5
Memory Bus	512 bits
Outputs	DisplayPort / HDMI DL-DVI-D*2
Power Consumption	250W
Card Dimension	302x131x55 mm
Card Weight	1580g
Form Factor	ATX

Technology Support	
Afterburner OC	GPU/Memory/VDDCI
DirectX	11.2
OpenGL	4.3
Multi-GPU	CrossFire, 4-way(SW)
Multi-Display	Eyefinity
3D Technology	HD3D
Power Saving	PowerTune
HDCP Capable	Y

Accessory	
Driver CD	Y
Installation Guide	Y
DVI to VGA Dongle	N
Power Cable	6pin*1, 8pin*2
V-check Point	Y, 3
MOS Sink	Y, 1