GT780 info kit

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WHO WILL YOU BECOME?

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What gamers say ...

"Having the most powerful gear is a must when it comes to competitive gaming. You need a system that can run the highest frame rates, and a design and layout that suits gamers' needs. The gaming laptop is something we use in our homes when practicing, but also on the road when we participate in tournaments, therefore it's extremely important that our laptops have the best quality out there."

Patrik '*cArn*' Sattermon, Counterstrike Team leader *Fnatic.MSI*





MSI, Brand for Gamers.

Designed for gamers

The design concept is based around less curves with crisp lines. Brushed aluminum finish for strength and style, but also a more robust chassis from a technical point of view.

Full black was a must with a backlight logo to reinforce gamer identity.







Keyboard by SteelSeries



Steelseries

- First priority

The most used gaming keys (W, A, S, D, Ctrl and Space

- 2nd priority

- 3rd priority

The second priority gaming keys

The third priority gaming keys





Multi-color backlight design

Steelseries

Full Color Programmable Backligh

Choose from more than 1,000 display combinations and 5 programmable scenario modes with the Keyboard LED Manager (KLM).



1. NORMAL MODE: Colors chosen by the user can be applied to the whole keybo

Colors chosen by the user can be applied to the whole keyboard; different colors can be set for the three different sections.



2. GAMING MODE: Only the LEDs on the left remain enabled. A choice of 29 colors is available.



3. BREATHING MODE:

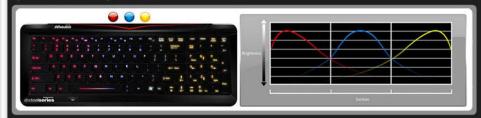
The alternating bright and dim appearance of the selected color creates a pulsating breathing effect.





4. WAVE MODE:

This creates an effect reminiscent of "the wave" by fans in a stadium. The LEDs alternate between the selected color and darkness in a gradation which flows from right to left.



5. DUAL COLOR MODE:

The whole keyboard LEDs alternate between two selected colors in a gradient mode





Gamers' opinion – SteelSeries keyboard



Questions to Patrik "*cArn*" Sattermon, Counterstrike Team leader *Fnatic.MSI*

MSI : What do you think about GT780 SteelSeries keyboard?

"As a gaming laptop has limited space to fit in a keyboard, I think simplicity is the only way to go. The MSI GT780 keyboard has highlighted and enlarged the buttons that the majority of gamers use. The function and windows button is conveniently relocated and smaller than the standard laptop keyboards."

MSI : Why is it important to have a good keyboard layout?

"In some of the games a player can have up to 400 actions per minutes, this means a keyboard has to be very distinct so the player can easily find the desired key he/she want to press. Also, the majority of gamers have a background using desktop PC with the full-sized keyboard, therefore it's important that the gaming laptop keyboard's design reminds you of a full-size keyboard."







Gamers' opinion – Non-glare panel

• The screen is the eyes of the gamer MSI therefore has chosen the highest quality of panel available for GT780.

Non-Glare filter

You can play in any condition inside or outside without being distracted by reflections

• LED backlight

For superior image quality, and longer battery life

• Full HD

Accurately displays the detail of latest games, with no loss of quality when watching Blu-ray movies



Why is it important to have a non-glare panel during competition?

"Besides the powerful system you also need a screen that displays the in-game images as clearly and as fast as possible. If your screen is not very visible you will lose time to react during battle, and even the smallest delay can cause big setbacks."



Sound by Dynaudio & THX



Trustudio PRO

 Dynaudio designes customized speakers, inspired by their high end audio range. The whole electronics circuit have been redesigned to offer more realistic sound with high fidelity. Every detail created by the game designers will be played back with impressive precision.

• With THX TruStudio PRO, movies and games can be experienced in a real-life surround sound experience.

-Trying the MSI G-series notebook range with Dynaudio & THX sound is an experience you will never forget!-



Why is it important to have a very good sound when playing games?

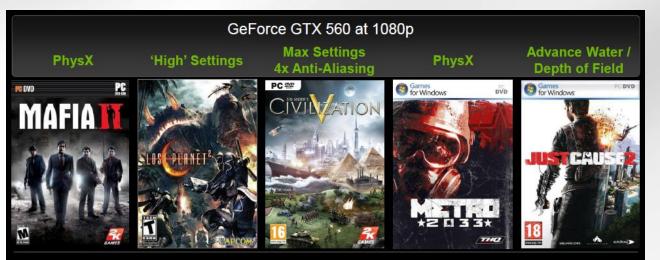
"In FPS-games the sound is used to detect your enemies, along with your vision on your screen plus the in-game communication tool you and your teammates are using. Besides having great in-game sound I also find it important to have powerful speakers that you can use for multimedia, such as movies and music."

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Latest NVIDIA GTX560M graphics







World's Most Widely Used Game Engine Implements DirectX 11, GPU PhysX, & 3D Vision



*Unreal Engine 3 Samaritan Demo

DIRECT XIT OYNAMIC TESSELLATION AND DISPLACEMENT



Turbo Drive Engine technology

ONE-TOUCH OVERCLOCKING WITH MSI TURBO DRIVE ENGINE (TDE) TECHNOLOGY

MSI Turbo Drive Engine (TDE) Technology is the world's No.1 turbo technology. With MSI TDE Technology, you can experience faster response time and efficient real-time data processing.

600

-400

-200

*Test results may vary under different testing environments.

MSÍ GAMING-SERIES

× 11001200 4000 800

8000 10000

* PCMark Score is based on GT780 SKU with SSD

Competitor compare

Model	MSI GT780R	Axxx G74SX 17.3" FHD (1920x1080) or HD+ (1600x900) or FHD 3D (1920x1080) LED Backlight		
Display	17.3" FHD (1920x1080) or HD+ (1600x900) LED Backlight			
None Glare LCD	Yes	N/A		
Graphics	1.5GB GTX560M	2GB/3GB GTX560M		
Graphic Overclocking	Yes (TDE GPU) - 5% Over Clock	N/A		
DRAM max	16GB	16GB		
Dual HDD RAID	Yes (HM67 Chipset) RAID HDD Faster 80% (Read/Write) for standard HDD	No Ird (HM65 Chipset)		
Keyboard	SteelSeries Co-branding Full-color backlight with Exclusive KLM SteelSeries Desktop Keyboard cost 100USD	Standard Notebook Keyboard White backlight only		
ID, Material & Body	Metal, NEW design!	Plastic		
Audio	Dynaudio (Hi-Fi) Certificated Speaker 2.1 channel THX TruStudio Pro 4 audio jack for 7.1ch output	IT Branding Speaker 2.1 channel 2 audio jack THX TruStudio EAX Advanced HD 5.0		
Webcam	HD 30fps	HD 30fps		
Battery	9 Cells 7800 mAh 87Wh	8 Cells 5200 mAh 74Wh		
USB 3.0 / USB 2.0 / eSATA	2 Ports / 3 Ports / 1 Port	1 Port / 3 Ports / N/A		
Output displays	HDMI & D-Sub	HDMI		
Weight	3,9Kg 4,28Kg			
Benchmark results	3DMark Vantage: P9290 (P9587 with TDE on) 3DMark11: P2033 (P2097 with TDE on)	3DMark Vantage: P9180 3DMark11: P2008		
MSRP	\$1599 (8G/640Gx2/BD)	\$1799 (8G/750Gx2/BD)		



MSI wins 11 points against 1 !!!

GT780 specifications

-Please check for your local SKU!-

CPU	Intel® Core i7-2630QM				
Chipset	Intel HM67				
Graphic	NVIDIA Geforce GTX560M 1.5Gb GDDR5				
Memory	4 Dimm DDR3, support up to 16Gb				
LCD	17,3" Full HD (1920x1080) Non-Glare LED Panel				
HDD	Dual HDD, up to 1.5TB Raid 0				
Card reader	SD (HC/XC) / MMC / MS(Pro) / xD				
ODD	Blu-ray / Super Multi				
I/O	USB 3.0 x2, USB 2.0 x2, eSATA, VGA, HDMI 1.4, LAN				
Battery	9 cells 7800 mAh				
Wireless	802.11 b/g/n, Bluetooth v2.1 +EDR				
Webcam	HD type (30 fps@720p)				
Sound	2.0ch Dynaudio speakers, THX TruStudio Pro™				
Dimension	428 x 288 x 55mm(WxDxH)				
Weight	3.9 kg				
Features	SteelSeries keyboard, TDE, Dynaudio				



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Other features





Easy memory upgrade

- Four SO-DIMM slots with up to 16 GB storage capacity
- Easy upgrade to accelerate the notebook processing speed









Dual HDD with Raid 0

• **RAID 0:** To enhance the HDD performance for gamer and power users, MSI uses RAID 0 on high performance NB like GT780 to boost up the HDD writing & reading speed with max 2x speed.



Dual HDD





Fast USB3.0 file transfers

• USB3.0 has higher data transfer rates (up to 500MB/s), 10x faster than USB2.0.

	Song / Pic	256 Flash	USB Flash	SD-Movie	USB Flash	HD-Movie
	4 MB	256 MB	1 GB	6 GB	16 GB	25 GB
USB 1.0	5.3 sec	5.7 min	22 min	2.2 hr	5.9 hr	9.3 hr
USB 2.0	0.1 sec	8.5 sec	33 sec	3.3 min	8.9 min	13.9 min
USB 3.0	0.01 sec	0.8 sec	3.3 sec	20 sec	53.3 sec	70 sec



With USB 3.0, users can shorten transition time and share data to others faster, especially with high speed devices such as HDD/SSD/RAID to reach their performance.



Cooler Boost technology

 Cooler Boost cools the CPU and GPU faster to decrease the fan speed by giving real-time notification of the MSI notebook's core temperature variations and fan speed







i-Charger technology



- MSI i-Charger allows you to use your laptop as a battery extender, charging your ipod / ipad / android device when your laptop is powered down!
- Click the i-Charger software to Connect right USB device to charge.
 3x faster charge speed than normal USB2.0.







Smooth social networking



HD Webcam



Legacy Webcam 8 frames per second face to face talk.



HD Webcam 1280x720 (720p) @ 30fps smooth video capture and face to face talk.



