![ASUS logo]

ASUS ROG G53SX-S1178V laptop Intel® Core™ i7 i7-2630QM 39.6 cm (15.6") 8 GB DDR3-SDRAM 750 GB NVIDIA® GeForce® GTX 560M Windows 7 Home Premium Black

Brand : ASUS   **Product family:** ROG   **Product code:** G53SX-S1178V

Product name : G53SX-S1178V

Intel Core i7-2630QM (2.00 GHz), 8192MB DDR3, 750GB SATA HDD, 2048MB GDDR5 VRAM, 15.6" LED, 2x USB 2.0, 1x USB 3.0, 1x HDMI, Gigabit Ethernet, 802.11 b/g/n, Windows 7 Home Premium, 3.92kg, Black
ASUS ROG G53SX-S1178V. Processor family: Intel® Core™ i7, Processor: i7-2630QM, Processor frequency: 2 GHz. Display diagonal: 39.6 cm (15.6"). Internal memory: 8 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 750 GB, Optical drive: DVD Super Multi. On-board graphics card model: Intel® HD Graphics 3000, Discrete graphics card model: NVIDIA® GeForce® GTX 560M. Operating system installed: Windows 7 Home Premium. Product colour: Black. Weight: 3.92 kg

Design	
Product colour *	Black

Display	
Display diagonal *	39.6 cm (15.6")
LED backlight	✔

Processor	
Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	2nd gen Intel® Core™ i7
Processor *	i7-2630QM
Processor number of cores	4
Processor threads	8
Processor boost frequency	2.9 GHz
Processor frequency *	2 GHz
System bus data transfer rate	5 GT/s
Processor cache	6 MB
Processor cache type	Smart Cache
Processor socket	Socket 988
Processor lithography	32 nm
Processor operating modes	64-bit
Processor series	Intel Core i7-2600 Mobile Series
Processor codename	Sandy Bridge
Bus type	DMI
FSB Parity	✘
Stepping	D2
Thermal Design Power (TDP)	45 W
Tjunction	100 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	2.0
PCI Express configurations	1x16, 2x8, 1x8+2x4
CPU multiplier (bus/core ratio)	20

Keyboard	
Pointing device	Touchpad
Full-size keyboard	✔
Keyboard	QWERTY

Software	
Operating system architecture	64-bit
Drivers included	✔
Operating system installed *	Windows 7 Home Premium

Processor special features	
Intel Wireless Display (WiDi) Technology	✔
Intel My WiFi Technology	✔
Intel Anti-Theft Technology	✔
Intel Identity Protection Technology	✔
Intel Hyper-Threading Technology	✔
Intel Turbo Boost Technology	2.0
Enhanced Intel SpeedStep Technology	✔
Intel Clear Video HD Technology	✔
Intel Clear Video Technology	✘
Intel® InTru™ 3D Technology	✔
Intel® Insider™	✔
Intel® Quick Sync Video Technology	✔
Intel Flex Memory Access	✔
Intel AES New Instructions	✔
Intel Trusted Execution Technology	✘
Intel Enhanced Halt State	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✘

Processor

ECC supported by processor	✗

Memory

Internal memory *	8 GB
Internal memory type	DDR3-SDRAM
Memory clock speed	1333 MHz
Memory slots	4x SO-DIMM
Memory, maximum *	16 GB

Storage

Total storage capacity *	750 GB
Number of HDDs installed	1
Hard drive capacity	750 GB
Hard drive interface	SATA
Optical drive *	DVD Super Multi
Card reader integrated	✔
Compatible memory cards	Memory Stick (MS), MMC, MS Duo, MS PRO, SD

Graphics

Discrete graphics card model *	NVIDIA® GeForce® GTX 560M
Discrete graphics card memory	2 GB
Discrete graphics memory type	GDDR5
On-board graphics card *	✔
Discrete graphics card *	✔
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 3000
On-board graphics card base frequency	650 MHz
On-board graphics card dynamic frequency (max)	1100 MHz
On-board graphics card ID	0x116

Audio

Audio system	EAX Advanced HD 5.0
Number of built-in speakers	2
Built-in microphone	✔

Network

Wi-Fi	✔
Network interface	Gigabit Ethernet
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)
Ethernet LAN connection	✔
Bluetooth	✗
Cabling technology	10/100/1000Base-T(X)

Ports & interfaces

USB 2.0 ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
DVI port	✗
VGA (D-Sub) ports quantity	1
Headphone outputs	1
S/PDIF out port	✗
Microphone in	✔
Docking connector	✗
ExpressCard slot	✗
CardBus PCMCIA slot type	✗
SmartCard slot	✗
TV-out	✗

Processor special features

Intel Clear Video Technology for MID	✗
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	37.5 x 37.5 (rPGA998)
Supported instruction sets	AVX
Processor code	SR02Y
Embedded options available	✗
Graphics & IMC lithography	32 nm
Intel Virtualization Technology for Directed I/O (VT-d)	✗
Intel Identity Protection Technology version	1.00
Intel Virtualization Technology (VT-x)	✔
Intel Dual Display Capable Technology	✔
Intel FDI Technology	✔
Intel Rapid Storage Technology	✗
Intel Fast Memory Access	✔
Processor ARK ID	52219
Conflict-Free processor	✗
Integrated 4G WiMAX	✔

Battery

Number of battery cells	8
Battery capacity	5200 mAh
Battery capacity *	74 Wh

Power

AC adapter power	150 W
AC adapter output current	7.7 A
AC adapter output voltage	19.5 V
DC-in jack	✔

Security

Cable lock slot	✔
Cable lock slot type	Kensington

Weight & dimensions

Width	391 mm
Depth	297 mm
Height (front)	3 cm
Height (rear)	6 cm
Weight *	3.92 kg

Packaging content

AC adapter included *	✔

Other features

Wireless	Wi-Fi
Infrared data port	✗
Graphics card family	NVIDIA
Type	PC
Display	LCD
Power supply type	AC/DC
Power requirements	100 - 240V
Compliance industry standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
Audio system full duplex	✔

Performance

Chipset	Intel® HM65 Express

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