Lenovo

Lenovo IdeaPad V580 Intel® Core™ i5 i5-3230M Laptop 39.6 cm (15.6") 6 GB DDR3-SDRAM 1 TB HDD NVIDIA® GeForce® GT 740M FreeDOS Black, Stainless steel

Brand : Lenovo   **Product family:** IdeaPad   **Product code:** 59-392191

Product name : V580

15.6" HD 1366 x 768, Intel Core i5-3230M (3M Cache, 2.6 GHz), 6GB DDR3, NVidia GeForce GT740M 2GB, 1TB HDD, 720p HD WebCam, Gigabit Ethernet, WLAN 802.11 b/g/n, DOS

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- NVIDIA® Optimus™ discrete graphics (up to 2GB VRAM) *
- Stylish brushed metal cover in gray
- Lenovo Enhanced Experience 3, with TurboBoot *
- Stereo speakers with Dolby® Advanced Audio™ v2
- Lenovo Hard Disk Drive Performance Booster *
- Integrated HD 720p camera
- DVD-RAMBO
- 2x USB 3.0, 2x USB 2.0, 4-in-1 card reader
- Active Protection System™
- AccuType keyboard
- Fingerprint reader

Design

Product type *	Laptop
Product colour *	Black, Stainless steel
Form factor *	Clamshell

Display

Display diagonal *	39.6 cm (15.6")
Display resolution *	1366 x 768 pixels
Touchscreen *	✗
LED backlight	✔
Native aspect ratio	16:9

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i5
Processor generation	3rd gen Intel® Core™ i5
Processor *	i5-3230M
Processor number of cores	2
Processor threads	4
Processor boost frequency	3.2 GHz
Processor frequency *	2.6 GHz
System bus data transfer rate	5 GT/s
Processor cache	3 MB
Processor cache type	Smart Cache
Processor socket	BGA 1023
Processor lithography	22 nm
Processor operating modes	64-bit
Processor series	Intel Core i5-3200 Mobile series
Processor codename	Ivy Bridge
Bus type	DMI
FSB Parity	✗
Stepping	L1
Thermal Design Power (TDP)	35 W
Tjunction	105 °C

Ports & interfaces

Headphone outputs	1
S/PDIF out port	✗
Microphone in	✔
ExpressCard slot	✗
CardBus PCMCIA slot type	✗
SmartCard slot	✗

Keyboard

Numeric keypad *	✔
Windows keys	✔

Software

Operating system installed *	FreeDOS

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® Smart Cache	✔
Intel AES New Instructions	✔

Processor

Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
PCI Express configurations	1x16, 2x8, 1x8+2x4
CPU multiplier (bus/core ratio)	26
ECC supported by processor	✘

Memory

Internal memory *	6 GB
Internal memory type	DDR3-SDRAM

Storage

Total storage capacity *	1 TB
Storage media *	HDD
Number of HDDs installed	1
Hard drive capacity	1 TB
Hard drive interface	SATA
Optical drive *	DVD±RW
Card reader integrated	✔

Graphics

Discrete graphics card model *	NVIDIA® GeForce® GT 740M
Discrete graphics card memory	2 GB
On-board graphics card *	✔
Discrete graphics card *	✔
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 4000
On-board graphics card base frequency	650 MHz
On-board graphics card dynamic frequency (max)	1100 MHz
On-board graphics card ID	0x166

Audio

Audio system	Dolby Enhanced Audio v2
Number of built-in speakers	2
Built-in microphone	✔

Camera

Front camera	✔

Network

Wi-Fi	✔
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)
Ethernet LAN connection	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
4G WiMAX	✘

Ports & interfaces

USB 2.0 ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
HDMI ports quantity *	1
DVI port	✘
VGA (D-Sub) ports quantity	1

Processor special features

Intel Trusted Execution Technology	✘
Intel Enhanced Halt State	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✘
Intel® Secure Key	✔
Intel Clear Video Technology for MID	✘
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	31 x 24 (BGA1023)
Supported instruction sets	AVX
Processor code	SR0WX
CPU configuration (max)	1
Embedded options available	✘
Graphics & IMC lithography	22 nm
Intel Virtualization Technology for Directed I/O (VT-d)	✘
Intel Identity Protection Technology version	1.00
Intel Secure Key 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	72056
Conflict-Free processor	✔
Integrated 4G WiMAX	✔

Battery

Battery life (max)	6.5 h

Power

DC-in jack	✔

Security

Cable lock slot	✘

Weight & dimensions

Width	378 mm
Depth	252 mm
Height	32.8 mm
Weight *	2.54 kg

Other features

LightScribe	✘
64-bit computing	✔

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