



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		Ports & interfaces	
Product type *	Laptop	Microphone in	✓
Product colour *	Black, Stainless steel	ExpressCard slot	✗
Form factor *	Clamshell	CardBus PCMCIA slot type	✗
Display		SmartCard slot	✗
Display diagonal *	39.6 cm (15.6")	Keyboard	
Display resolution *	1366 x 768 pixels	Numeric keypad *	✓
Touchscreen *	✗	Windows keys	✓
LED backlight	✓	Software	
Native aspect ratio	16:9	Operating system installed *	FreeDOS
Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Wireless Display (Intel® WiDi)	✓
Processor family *	Intel® Core™ i5	Intel® My WiFi Technology (Intel® MWT)	✓
Processor generation	3rd gen Intel® Core™ i5	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor model *	i5-3230M	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cores	2	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	4	Intel® Turbo Boost Technology	2.0
Processor boost frequency	3.2 GHz	Enhanced Intel SpeedStep Technology	✓
Processor frequency *	2.6 GHz	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
System bus rate	5 GT/s	Intel Clear Video Technology	✗
Processor cache	3 MB	Intel® InTru™ 3D Technology	✓
Processor cache type	Smart Cache	Intel® Insider™	✓
Processor socket	BGA 1023	Intel® Quick Sync Video Technology	✓
Processor lithography	22 nm	Intel Flex Memory Access	✓
Processor operating modes	64-bit	Intel® Smart Cache	✓
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		

Processor		Processor special features	
Maximum number of PCI Express lanes	16	Intel® AES New Instructions (Intel® AES-NI)	✓
PCI Express slots version	3.0	Intel Trusted Execution Technology	✗
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel Enhanced Halt State	✓
CPU multiplier (bus/core ratio)	26	Intel VT-x with Extended Page Tables (EPT)	✓
ECC supported by processor	✗	Intel Demand Based Switching	✗
Memory		Intel® Secure Key	✓
Internal memory *	6 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Internal memory type	DDR3-SDRAM	Intel 64	✓
Storage		Execute Disable Bit	✓
Total storage capacity *	1 TB	Idle States	✓
Storage media *	HDD	Thermal Monitoring Technologies	✓
Number of HDDs installed	1	Processor package size	31 x 24 (BGA1023)
HDD capacity	1 TB	Supported instruction sets	AVX
HDD interface	SATA	Processor code	SR0WX
Optical drive type *	DVD±RW	CPU configuration (max)	1
Card reader integrated	✓	Embedded options available	✗
Graphics		Graphics & IMC lithography	22 nm
Discrete graphics card model *	NVIDIA® GeForce® GT 740M	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Discrete graphics card memory	2 GB	Intel Identity Protection Technology version	1.00
On-board graphics card *	✓	Intel Secure Key Technology version	1.00
Discrete graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
On-board graphics card family	Intel® HD Graphics	Intel Dual Display Capable Technology	✓
On-board graphics card model *	Intel® HD Graphics 4000	Intel FDI Technology	✓
On-board graphics card base frequency	650 MHz	Intel Rapid Storage Technology	✗
On-board graphics card dynamic frequency (max)	1100 MHz	Intel Fast Memory Access	✓
On-board graphics card ID	0x166	Processor ARK ID	72056
Audio		Conflict-Free processor	✓
Audio system	Dolby Enhanced Audio v2	Integrated 4G WiMAX	✓
Number of built-in speakers	2	Battery	
Built-in microphone	✓	Battery life (max)	6.5 h
Camera		Power	
Front camera	✓	DC-in jack	✓
Network		Security	
Wi-Fi	✓	Cable lock slot	✗
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Weight & dimensions	
Ethernet LAN	✓	Width	378 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Depth	252 mm
Bluetooth	✓	Height	32.8 mm
4G WiMAX	✗	Weight *	2.54 kg
Ports & interfaces		Other features	
USB 2.0 ports quantity *	2	LightScribe	✗
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	64-bit computing	✓
HDMI ports quantity *	1		
DVI port	✗		
VGA (D-Sub) ports quantity	1		
Headphone outputs	1		
S/PDIF out port	✗		

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