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VPCZ11X9E/B

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Incredibly Fast and Powerful On the Move



Technical specifications

Operating System

Operating System	Genuine Windows® 7 Professional (64-bit)
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Architecture

Chipset	Intel® HM57 Express Chipset
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Colour

Cover colour	Black
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CPU Section

Processor Name	Intel® Core™ i5-520M Processor
Power and Performance	with Intel® Turbo Boost Technology
Processor Speed (GHz)	2.4
Max Turbo Boost Speed (GHz)	2.93
L2 Cache (MB)	3
Number of Cores	2

Useful Links

► Product support
► <http://www.sony.co.uk>

Memory

Memory Size (GB)	4
Memory Specification	PC3-8500
Memory Speed (MHz)	1066
Memory Type	DDR3 SDRAM
Max. Supported Memory (GB)	8
Max Memory Comment	A portion of the system memory over 3 may not be available to the 32bit operating system.

Drives

Hard Drive Type	Dual SSD (RAID 0)
Hard Drive Capacity (GB)	128
Optical Drive Type	DVD+-RW/+R DL/RAM

Drives Speed

Write	CD-R x24, CD-RW x10, DVD-R DL x4, DVD-R x8, DVD-RW x6, DVD+R DL x4, DVD+R x8, DVD+RW x8, DVD-RAM x5
Read	CD x24, CD-R x24, CD-RW x24, DVD x8, DVD-R DL x8, DVD-R x8, DVD-RW x8, DVD+R DL x8, DVD+R x8, DVD+RW x8, DVD-RAM x5

Display

Screen Type	VAIO Display Premium with LED backlight
Diagonal Size (in)	13.1
Diagonal Size (cm)	33.3
Aspect Ratio	16:9
Resolution	1600 x 900
Max Resolution External Display	2048 x 1536

Graphics

Graphic Card Name	NVIDIA® GeForce® GT 330M GPU + Intel® HD Graphics
Video RAM memory (MB)	GDDR3 1 GB
Comments	* Total Available Graphics Memory refers to the Windows® classification of graphics memory, which varies depending on the operating condition,

version of device driver
and system memory size.

Interfaces

Memory Stick™ Slot	YES
Memory Stick™ Slot Type	PRO-HG (Duo Only) / MagicGate(MGR)
SD Card Slot	YES
Microphone Jack (Stereo)	1
Headphone Jack (Stereo)	1
Docking Station Interface	Yes
HDMI™ out	YES
USB Port (quantity)	3
USB Version	2.0
USB Connector Type	A
VGA Connector for Monitor	1: mini D-sub 15p
Express Card Slot	1
Express Card Type	34mm

Connectivity

Integrated Wireless LAN	YES
Wireless LAN Max. Data Rate (Mbps)	300
Wireless LAN Type	802.11 a/b/g/n (20/40)
RJ-45 Direct Port (Network)	YES
Ethernet network	10BASE-T/100BASE- TX/1000BASE-T
Built-in WWAN	YES
WWAN Module	Qualcomm Gobi 2000
WWAN Download/Upload speeds (Mbps)	7.2 / 5.76
Bluetooth	YES
Integrated Bluetooth (Version)	Bluetooth standard Ver. 2.1+EDR
Bluetooth Range (m)	Max. approx. 10 (open space)
Bluetooth Max. Data Rate (Mbps)	Max. 2.1

Multimedia

Built-in Stereo Speakers	YES
Built-in Microphone	YES: Monaural
Dolby Codec	Dolby Home Theater v3

Built-in Camera

Built-in 'Motion Eye' Digital Camera	YES
Image Sensor (Mega Pixels)	0.3
Motion Pictures max. Resolution (pixels)	640x480

Keyboard Section

Touch Pad	1
Stroke (mm)	2
Key Pitch (mm)	19.05
Backlight Keyboard	YES

Features

Special Buttons	Dynamic Hybrid Graphic, VAIO, Assist
Auto Luminance Control	YES
Housing Material	Carbon Fiber
Kensigton Lock	YES

Software

Solution Guide	VAIO Gate
Photo / Video	PMB VAIO Edition (Without VAIO Creation features)
Support	VAIO Care
Utilities	VAIO Transfer Support, VAIO Update, VAIO Smart network, Google Chrome Browser
Microsoft	Internet Explorer 8, Windows Live Essentials Suite
Office Application	Adobe® Reader® 9, Adobe Premiere Elements8, Adobe PhotoShop Elements8, Microsoft® Office Ready (60 days Try & Buy)
Security & Other	McAfee® (60 days free virus update), Norton Online BackUp Trial

Supplied Accesories

AC Adaptor	VGP-AC19V32
Power Cord	YES

Dimensions

Depth Main Unit (mm)	210
Height Main Unit (min - max in mm)	23.8 - 32.7
Width Main Unit (mm)	314
Weight with Supplied Battery (Kg)	1.41

Battery

Battery Type	
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Power	Li-Ion battery (VGP-BPS20/B) 58.32Wh (10.8V/5400mAh)
Weight (g)	315
Battery Life Disclaimer	Actual battery life will vary depending on your specific hardware and software configurations. Benchmark: MobileMark 2007