


# Dell™ Studio XPS™ 8000 Comprehensive Specifications

This document provides information that you may need when setting up, updating drivers for, and upgrading your computer.

**NOTE:** Offerings may vary by region. For more information regarding the configuration of your computer, click **Start**  **Help and Support** and select the option to view information about your computer.

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Model: D03M series

Type: D03M001

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## Processor

Type	Intel® Core™ i7-870 Intel Core i7-860 Intel Core i5-750
L1 cache	32 KB
L2 cache	256 KB
L3 cache	8 MB

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## Drives and Devices

Externally accessible	<ul style="list-style-type: none"> <li>two 5.25-inch bays for SATA DVD+/-RW Super Multi Drive or Blu-ray Disc™ combo or Blu-ray Disc RW drive</li> <li>one 3.5-inch bay for a Flexdock or a Bluetooth® module</li> </ul>
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Wireless (optional)	WiFi/Bluetooth® wireless technology
Internally accessible	two 3.5-inch bays for SATA hard drives

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## Memory

Connectors	four internally-accessible DDR3 DIMM sockets
Capacities	1 GB, 2 GB, and 4 GB
Memory type	1066-MHz or 1333 MHz DDR3 DIMM; non-ECC memory only
Memory configurations possible	4 GB, 6 GB, 8 GB, 12 GB, and 16 GB (64-bit operating system)

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## Computer Information

System chipset	Intel P55
Data bus width	2.5 GT/s
DRAM bus width	64 bits
Processor address bus width	64 bits
RAID support (internal SATA drives only)	RAID 0 (striping) RAID 1 (mirroring)
BIOS chip (NVRAM)	8 MB
Memory speed	1333 Mhz

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## Expansion Bus

PCI Express	<ul style="list-style-type: none"> <li>Gen2 x1 slot bi-directional speed — 500 MB/s</li> <li>Gen2 x16 slot bi-directional speed — 16 GB/s</li> </ul>
PCI	32-bit speed — 33 MHz
SATA 2.0	1.5 Gbps and 3.0 Gbps
USB 2.0	<ul style="list-style-type: none"> <li>high speed — 480 Mbps</li> <li>full speed — 12 Mbps</li> <li>low speed — 1.2 Mbps</li> </ul>

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## Video

Discrete	PCI Express x16 card
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## Audio

Type	Integrated 7.1 channel, High Definition Audio with S/PDIF support
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## Memory Card Reader

Cards Supported	<ul style="list-style-type: none"> <li>• CompactFlash (CF) Card</li> <li>• Smart Media (SM) Card</li> <li>• xD-Picture (xD) Card</li> <li>• Memory Stick (MS) Card</li> <li>• Memory Stick PRO (MSPRO)Card</li> <li>• Memory Stick PRO HG (MSPRO HG)Card</li> <li>• SecureDigital (SD) Card</li> <li>• SecureDigital Card (SDHC) 2.0</li> <li>• MultiMedia Card (MMC)</li> <li>• MicroDrive (MD)</li> </ul>
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## System Board Connectors

Memory	four 240-pin connectors
PCI	one 124-pin connector
PCI Express x1	two 36-pin connectors
PCI Express x16	one 164-pin connector
Power (System board)	one 24-pin EPS 12V connector (ATX-compatible)
Processor fan	one 4-pin connector
Chassis fan	one 3-pin connector
Front USB connector	five 9-pin connectors
Front audio connector	one 9-pin connector for 2-channel stereo sound and microphone
SATA	four 7-pin connectors

S/PDIF out	5-pin connector
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## External Connectors

Network adapter	RJ45 connector
USB	two top-panel, two front panel, and four back-panel USB 2.0-compliant connectors
Audio	<ul style="list-style-type: none"> <li>top panel - headphone and microphone connectors</li> <li>back panel - six connectors for 7.1 support</li> </ul>
S/PDIF	one S/PDIF (optical) connector
eSATA	one back-panel connector
IEEE 1394a	one back-panel 6-pin serial connector

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## Expansion Slots

<b>PCI</b>	
Connectors	one
Connector size	124-pin connector
Connector data width (maximum)	32 bit
<b>PCI Express x1</b>	
Connectors	two
Connector size	36-pin connector
Connector data width (maximum)	1 PCI Express lane
<b>PCI Express x16</b>	
Connectors	one
Connector size	164-pin connector
Connector data width (maximum)	16 PCI Express lane

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## Power

<b>DC Power Supply</b>	
Wattage	350 W

Maximum heat dissipation	1836 BTU/hr
<b>NOTE:</b> Heat dissipation is calculated by using the power supply wattage rating.	
Input voltage	115/230 VAC
Input frequency	50/60 Hz
Rated output current	8 A/4 A
Coin-cell battery	3-V CR2032 lithium coin cell

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## Battery

Coin-cell battery	3-V CR2032 lithium coin cell
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## Physical

Height	407.75 mm (16.02 inches)
Width	185.81 mm (7.31 inches)
Depth	454.67 mm (17.90 inches)
Weight	10.18 kg (22.40 lb)

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## Computer Environment

<b>Temperature range:</b>	
Operating	10°C to 35°C (50°F to 95°F)
Storage	-40°C to 65°C (-40°F to 149°F)
Relative humidity	20% to 80% (non-condensing)
<b>Maximum vibration (using a random-vibration spectrum that simulates user environment):</b>	
Operating	0.25 GRMS
Storage	2.2 GRMS
<b>Maximum shock (measured with hard drive in head-parked position and a 2-ms half-sine pulse):</b>	
Operating	Half-Sine Pulse: 40G for 2 ms with a change in velocity of 20 in/s (51 cm/s)
Storage	Half-Sine Pulse: 50G for 26 ms with a change in velocity of 320 in/s (813 cm/s)

<b>Altitude (maximum):</b>	
Operating	-15.2 to 3048 m (-50 to 10,000 ft)
Storage	-15.2 to 10,668 m (-50 to 35,000 ft)
Airborne contaminant level	G2 or lower as defined by ISA-S71.04-1985

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