



Specifications

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2011 - 12

Regulatory Model: D05S | Type: D05S001

Computer Model: Alienware x51

Dimensions

Height front — 343.00 mm (13.50 inches)
back — 318.50 mm (12.54 inches)

Width 95.00 mm (3.74 inches)

Depth 318.00 mm (12.52 inches)

Minimum Weight 5.49 kgs (12.10 lbs)

NOTE: The weight of your computer may vary depending on the configuration.

System information

Model Alienware X51

Processor

- Intel Core i7 Quad-Core
- Intel Core i5 Quad-Core
- Intel Core i3 Dual-Core

L2 cache 256 KB per core

L3 cache

- Intel Core i7 — 8 MB
- Intel Core i5 — 6 MB
- Intel Core i3 — 3 MB

System chipset Intel H61 Express chipset

DMI speed 20 Gbps

Processor data width 64 bits

Memory

Connectors two internally-accessible DDR3 DIMM sockets

Capacities 2 GB and 4 GB

Memory type DDR3 SDRAM (Non-ECC)

Memory speed 1333 MHz

Memory configurations supported 4 GB, 6 GB, and 8 GB

Minimum 2 GB

Maximum 8 GB

Ports and connectors

Back Panel Connectors

| | |
|-----------------|---|
| Network adapter | one RJ45 connector |
| USB | <ul style="list-style-type: none">▪ four 4-pin USB 2.0-compliant connectors▪ two 4-pin USB 3.0-compliant connectors |
| Audio | <ul style="list-style-type: none">▪ five audio output/headphone connectors▪ one audio input/microphone connector▪ one optical S/PDIF connector▪ one coaxial S/PDIF connector |
| HDMI | one 7-pin connector |

Top Panel Connectors

| | |
|-------|---|
| USB | two 4-pin USB 2.0-compliant connectors |
| Audio | <ul style="list-style-type: none">▪ one audio output/headphone connector▪ one audio input/microphone connector |

Communications

| | |
|-----------------|---|
| Network adapter | 10/100/1000 Mbps integrated network adapter |
| Wireless | 802.11 a/b/g/n integrated wireless local area network |

Video

Video controller

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|------------|---|
| Integrated | Intel High Definition Multimedia Interface (HDMI) |
| Discrete | PCI Express x 16, single-/dual-width video cards (optional) |

Video memory

| | |
|----------|--------------------|
| Discrete | 1-GB Graphics DDR5 |
|----------|--------------------|

Audio

| | |
|------------|---|
| Type | integrated 7.1-channel audio, High Definition Audio with S/PDIF support |
| Controller | Realtek ALC892 codec |

Drives

| | |
|-----------------------|--|
| Externally accessible | one 5.25-inch drive bay for a Blu-ray Disc combo, DVD+/-RW super multi-drive |
| Internally accessible | one 3.5-inch drive bay for a SATA hard drive |

Expansion bus

PCI Express x16

| | |
|----------------|-------------------|
| Connectors | one |
| Connector size | 164-pin connector |

Power

| | |
|---------|----------------|
| Voltage | 100-240 VAC |
| Wattage | 240 W or 330 W |

Computer environment

Temperature range

| | |
|-----------|------------------------------------|
| Operating | 10 °C to 35 °C (50 °F to 95 °F) |
| Storage | -10 °C to 45 °C (-14 °F to 113 °F) |

| | |
|-----------------------------|------------------------------|
| Relative humidity (maximum) | 20 % to 80 % (noncondensing) |
|-----------------------------|------------------------------|

NOTE: Maximum vibration (using a random vibration spectrum that simulates user environment)

| | |
|-----------|-----------|
| Operating | 0.25 GRMS |
| Storage | 2.2 GRMS |

NOTE: Maximum shock (Measured with hard drive in operating status and a 2-ms half-sine pulse for operating. Also measured with hard drive in head-parked position and a 2-ms half-sine pulse for storage)

| | |
|-----------|---|
| Operating | 40 G for 2 ms with a change in velocity of 51 cm/s (20 inches/s) |
| Storage | 50 G for 26 ms with a change in velocity of 813 cm/s (320 inches/s) |

Altitude (maximum)

| | |
|-----------|--------------------------------------|
| 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 |
|----------------------------|---|