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## Technical Specifications: Dell™ Dimension™ 4100 System Reference

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### Microprocessor

Microprocessor type

Intel® Pentium® III processor

667, 733, 800, 866, or 933 MHz internally and 133 MHz externally, or 1GHz internally and 133 MHz externally, or 1.1 GHz internally and 100 MHz externally

Intel Celeron™ processor

1.0 and 1.1 GHz internally and 100 MHz externally

L1 cache

32-KB SRAM (16-KB data cache; 16-KB instruction cache)

L2 cache

256-KB Advanced Transfer Cache that resides in the processor's core (The L2 cache runs at the processor's internal clock speed.)

Microprocessor mounting

Socket 370

Math coprocessor

internal to processor

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## System Information

System chip set	Intel 815E
DMA channels	seven
Interrupt levels	15
System BIOS chip	4 Mb (512 KB)

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## Expansion Bus

Bus types	PCI (version 2.2) and AGP (version 2.0)
Bus speed	AGP: 66 MHz PCI: 33 MHz
AGP card connectors	one universal connector that supports AGP 4X cards
AGP card connector size	132 pins
AGP card connector data width (maximum)	32 bits
PCI card connectors	five
PCI card connector size	124 pins
PCI card connector data width (maximum)	32 bits

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## Memory

Architecture	non-ECC PC133 SDRAM
Memory sockets	two; gold contacts
Memory capacities	64, 128, and 256 MB (non-ECC)
Minimum memory	64 MB (non-ECC)
Maximum memory	512 MB (non-ECC)
Frequency	133 MHz
Clock cycle	7.5 ns (supports 4 clocks only)
CAS latency	3
SPD revision	1.2 A
Buffering	unbuffered
Voltage	3.3 V

Data bus width	64 bits
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## Drives

### Mini tower computer:

Externally accessible bays	five total: two 5.25-inch bays; three 3.5-inch bays
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Internally accessible bays	two bays for 1-inch-high EIDE hard drives
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### Desktop computer (available only in certain locations):

Externally accessible bays	four total: two 5.25-inch bays; two 3.5-inch bays
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Internally accessible bays	two bays for 1-inch-high EIDE hard drives
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Available devices	ATA-66 or ATA-100 Ultra DMA hard drives, CD drives, DVD drives, CD-RW drives, and Zip drives
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## Ports

### Externally accessible:

Serial (DTE)	9-pin connector; 16550C-compatible
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Parallel	25-hole connector (bidirectional)
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PS/2-style keyboard	6-pin mini-DIN connector
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PS/2-compatible mouse	6-pin mini-DIN connector
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Video	15-hole connector on an AGP video card
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USB	two USB-compliant connectors
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Audio <sup>1</sup>	three miniature jacks for line in, line out, and microphone
MIDI/game <sup>1</sup>	15-pin connector
NIC <sup>2</sup>	RJ45 connector that supports 10BASE-T and 100BASE-T Ethernet standards

## Internally accessible:

Primary EIDE channel	40-pin connector
Secondary EIDE channel	40-pin connector
Floppy drive	34-pin connector

<sup>1</sup> For computer with built-in sound.

<sup>2</sup> For computers with built-in network interface controller (NIC).

## Video

Video	AGP 2.0 video card (4X or 2X; see manufacturer's specifications for information about the card and any utilities and drivers included)
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## Audio

Audio <sup>1</sup>	ADI SoundMAX 2.0 Integrated Audio Driver (ADI 1885 chip set)
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<sup>1</sup> For computer with built-in sound.

## NIC

NIC <sup>2</sup>	Integrated Intel 10/100 Ethernet Controller Driver (Intel 82562ET chip set)
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<sup>2</sup> For computers with built-in NIC.

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## Power

### DC power supply:

Wattage	200 W
Voltage (switch-selectable on back panel)	90 to 135 V at 60 Hz; 180 to 265 V at 50 Hz; 100 V at 50 to 60 Hz for Japanese computers
Heat dissipation	778 BTU (fully loaded computer without monitor)

Battery	3-V CR2032 coin cell
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## Controls and Lights

Reset control	push button
Power control	push button
Power light	green
Hard-drive access light	green
Network lights (optional)	green and yellow
Diagnostic code lights	four bicolor (yellow and green) located on back panel

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## Physical

### Mini tower computer:

Height	43.69 cm (17.2 inches)
Width (with base)	20.32 cm (8 inches)
Depth	44.45 cm (17.5 inches)
Weight	11.3–13.6 kg (25.0–30.0 lb)

## Desktop computer:

Height	16.00 cm (6.3 inches)
Width	42.42 cm (16.7 inches)
Depth	44.45 cm (17.5 inches)
Weight	11.3–13.6 kg (25.0–30.0 lb)

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**Environmental**

## Temperature:

Operating	10° to 35°C <sup>3</sup> (50° to 95°F)
Storage	–40° to 65°C (–40° to 149°F)

Relative humidity 20% to 80% (noncondensing)

## Maximum vibration:

Operating	0.25 G at 3 to 200 Hz at 1/2 octave/min
Storage	0.5 G at 3 to 200 Hz at 1/2 octave/min

## Maximum shock:

Operating	left side (for mini tower orientation) and bottom half-sine pulse with a change in velocity of 50.8 cm/sec (20 inches/sec)
Storage	23-G faired-square wave with a velocity change of 508.0 cm/sec (200 inches/sec)

## Altitude:

Operating	–15.2 to 3048 m (–50 to 10,000 ft) <sup>3</sup>
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Storage -15.2 to 10,600 m (-50 to 35,000 ft)

<sup>3</sup> At 35°C (95°F), the maximum operating altitude is 914 m (3000 ft).

## Regulatory Notices

FCC (U.S. only)	Class B
IC Notice (Canada only)	Class B
CE Notice	Class B
VCCI Notice (Japan only)	Class B
NOM O24 Information (Mexico only)	

## IRQ Assignments

IRQ Line	System Resource	IRQ Line	System Resource
IRQ0	System timer	IRQ8	RTC
IRQ1	Keyboard buffer	IRQ9	Available
IRQ2	Enables IRQ8 through IRQ15	IRQ10	Available
IRQ3	Available <sup>1</sup>	IRQ11	Default PCI IRQ
IRQ4	Serial port	IRQ12	Mouse port
IRQ5	Available	IRQ13	Math coprocessor
IRQ6	Floppy/tape drive controller	IRQ14	Primary EIDE channel
IRQ7	Parallel port	IRQ15	Secondary EIDE channel

*NOTE: The [Glossary](#) defines abbreviations and acronyms.*

<sup>1</sup> IRQ3 is available provided that no other device in the computer (such as a modem) is using COM2 or COM4.

## Default Dell-Installed Card Placements

Table 1 provides the default Dell-installed card placements.

**Table 1. Default Dell-Installed Card Placements**

Card Slot	Card
AGP Port	AGP video
PCI Slot 1	NIC
PCI Slot 2	DVD
PCI Slot 3	Wireless network/HPNA/PCMCIA
PCI Slot 4	Audio
PCI Slot 5	PCI modem
<i>NOTE: The <a href="#">Glossary</a> defines abbreviations and acronyms.</i>	

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## DMA Channel Assignments

DREQ Line	Used By/Available
DREQ0	Default audio DMA channel assignment
DREQ1	Default audio DMA channel assignment
DREQ2	Generated by I/O controller to enable DMA cycle for attached floppy drive
DREQ3	Parallel port (ECP)
DREQ4	Reserved
DREQ5	Available
DREQ6	Available
DREQ7	Available
<i>NOTE: The <a href="#">Glossary</a> defines abbreviations and acronyms.</i>	

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