DELL™

Dell™ Inspiron™ 1428: 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.

Processor	
Type	Intel® Celeron®
	Intel® Pentium® Dual-Core
	Intel® Core™2 Duo
L2 cache	1 MB, 2 MB, and 3 MB
External bus frequency	533/667/800 MHz

Computer Information	
System chipset	Intel GM45
Data bus width	64 bits
DRAM bus width	64 bits
Flash EPROM	2 MB
Processor address bus	32 bits
Graphic bus	64 bits

Memory Card Reader	
Card reader controller	O2 OZH24
Card reader connector	3-in-1 combo card reader

Memory Card Reader *(continued)*

Flash cards supported	• Secure Digital (SD) memory card
	• Memory Stick
	• Multi Media Card (MMC)

Memory

Memory connectors	two internally-accessible SO-DIMM connectors
Memory capacities	1 GB and 2 GB
Memory type	800 MHz DDR2
Memory configurations	2 GB, 3 GB, and 4 GB

NOTE: For instructions on upgrading memory, see the *Service Manual* at **support.dell.com/manuals**.

Connectors

Audio	one microphone-in connector
	one stereo headphone/speaker connector
Mini-Card	one half-size connector
Network adapter	one RJ45 connector
USB	four 4-pin USB 2.0-compliant connectors
Video	one 15-hole connector
IEEE 1394a	one 4-pin serial connector

Communications

Modem interface	external V.92 56K USB (optional)
Network adapter	10/100/1000 Mbps, Realtek RTL811C-VB-GR
Wireless	Wireless LAN, 802.11 bg/abgn

Video

Video type	integrated on system board
Video controller	Intel® Graphics Media Accelerator 4500MHD
Video memory	minimum 32 MB
LCD interface	Low-voltage differential signaling (LVDS)

Audio

Audio type	2 channel High Definition
Audio controller	Realtek ALC272-GR
Stereo conversion	24-bit (analog-to-digital and digital-to-analog)
Internal interface	Intel High Definition audio
Speakers	two 1.5 watt speakers
Volume controls	keyboard function keys and program menu

Camera

Camera resolution	2.0 megapixel
Video resolution	320 x 240 ~ 1280 x 1024 (640 x 480 at 30 fps)
Diagonal viewing angle	66°

Display

Type	14.1-inch WXGA, TrueLife
Height	206 mm (8.1 inches)
Width	320 mm (12.5 inches)
Diagonal	358 mm (14.1 inches)
Luminance	220 cd/m2
Maximum resolution	1280 x 800

Display *(continued)*

Refresh rate	60 Hz
Operating angle	0° (closed) to 135°
Horizontal viewing angle	±40° (LED) minimum
Vertical viewing angle	+15°/-30° (LED) minimum
Pixel pitch	0.1905 x 0.189 mm
Controls	brightness can be controlled through keyboard shortcuts (see the *Dell Technology Guide* for more information)

Keyboard

Number of keys	87
Layout	QWERTY/AZERTY/Kanji

Touchpad

X/Y position resolution (graphics table mode)	240 cpi
Width	79.7 mm (3.13 inches) sensor-active area
Height	47.7 mm (1.87 inches) rectangle

Battery

Type	6-cell "smart" lithium ion
Dimensions:	
Depth	58.23 mm (2.30 inches)
Height	21.5 mm (0.8 inches)
Width	140.6 mm (5. 54 inches)
Weight	0.41 kg (0.90 lb)
Voltage	11.1 VDC
Charge time when the computer is turned off (approximate)	4 hours
Life span (approximate)	300 discharge/charge cycles

Battery *(continued)*

Temperature range	
Operating	0° to 35° C (32° to 95°F)
Storage	-40° to 65° C (-40° to 149°F)
Coin-cell battery	CR-2032

AC Adapter

Input voltage	100–240 VAC
Input current	1.5 A
Input frequency	50–60 Hz
Output power	65 W
Output current	3.34 A or 3.42 A
Rated output voltage	19 VDC or 19.5 VDC
Temperature range	
Operating	0° to 35°C (32° to 95°F)
Storage	–40° to 65°C (–40° to 149°F)

Physical

Height	42.1 mm (1.66 inches)
Width	337.4 mm (13.3 inches)
Depth	245.5 mm (9.67 inches)
Weight (with 6-cell battery)	configurable to less than 2.45 kg (5.40 lbs)

Computer Environment

Temperature range	
Operating	0° to 35°C (32° to 95°F)
Storage	–40° to 65°C (–40° to 149°F)
Relative humidity (maximum)	
Operating	10% to 90% (non-condensing)
Storage	5% to 95% (non-condensing)

Computer Environment *(continued)*

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

Operating	0.66 GRMS
Non-Operating	1.30 GRMS

Maximum shock (for operating — measured with Dell Diagnostics running on the hard drive and a 2-ms half-sine pulse; for non-operating — measured with hard drive in head-parked position and a 2-ms half-sine pulse)

Operating	110 G
Non-Operating	160 G
Airborne contaminant level	G2 or lower as defined by ISA-S71.04-1985