DELL

DELL Precision M4700 Intel® Core™ i7 i7-3840QM Laptop 39,6 cm (15.6") Full HD 8 GB DDR3-SDRAM 750 GB HDD NVIDIA® Quadro® K2000M Windows 7 Professional Black

Brand : DELL　　　**Product family:** Precision　　　**Product code:** 4700-7933

Product name : M4700

Intel Core i7-3840QM (2.8 GHz), 8GB DDR3 RAM, 750GB HDD, 15.6" FHD (1920x1080) LED, NVIDIA Quadro K2000M 2GB, Gigabit Ethernet, WLAN 802.11a/g/n, Bluetooth 4.0, DVD±RW, Windows 7 Professional 64-bit

DELL Precision M4700. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-3840QM, Processor frequency: 2,8 GHz. Display diagonal: 39,6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 750 GB, Storage media: HDD, Optical drive type: DVD Super Multi DL. Operating system installed: Windows 7 Professional. Product colour: Black

Design

Product type *	Laptop
Product colour *	Black
Form factor *	Clamshell

Display

Display diagonal *	39,6 cm (15.6")
Display resolution *	1920 x 1080 pixels
Touchscreen *	✘
HD type	Full HD
LED backlight	✔
Native aspect ratio	16:9

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	3rd gen Intel® Core™ i7
Processor model *	i7-3840QM
Processor cores	4
Processor threads	8
Processor boost frequency	3,8 GHz
Processor frequency *	2,8 GHz
System bus rate	5 GT/s
Processor cache	8 MB
Processor cache type	Smart Cache
Processor socket	PGA988
Processor lithography	22 nm
Processor operating modes	64-bit
Processor series	Intel Core i7-3800 Mobile Series
Processor codename	Ivy Bridge
Bus type	DMI

Keyboard

Pointing device	Touchpad
Numeric keypad *	✔
Windows keys	✔

Software

Operating system architecture	64-bit
Operating system installed *	Windows 7 Professional

Processor special features

Intel® Wireless Display (Intel® WiDi)	✔
Intel® My WiFi Technology (Intel® MWT)	✔
Intel® Anti-Theft Technology (Intel® AT)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	2.0
Intel® Small Business Advantage (Intel® SBA)	✘
Enhanced Intel SpeedStep Technology	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✘
Intel® InTru™ 3D Technology	✔
Intel® Insider™	✔
Intel® Quick Sync Video Technology	✔
Intel Flex Memory Access	✔

Processor

FSB Parity	✗
Stepping	E1
Thermal Design Power (TDP)	45 W
Tjunction	105 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
PCI Express configurations	1x16, 2x8, 1x8+2x4
CPU multiplier (bus/core ratio)	28
ECC supported by processor	✗

Memory

Internal memory *	8 GB
Internal memory type	DDR3-SDRAM
Memory clock speed	1600 MHz
Memory layout (slots x size)	2 x 4 GB
Memory slots	4x SO-DIMM
Maximum internal memory *	32 GB

Storage

Total storage capacity *	750 GB
Storage media *	HDD
Number of HDDs installed	1
HDD capacity	750 GB
HDD interface	SATA
HDD speed	7200 RPM
Optical drive type *	DVD Super Multi DL
Card reader integrated	✔

Graphics

Discrete graphics card model *	NVIDIA® Quadro® K2000M
Discrete graphics card memory	2 GB
Discrete graphics memory type	GDDR3
On-board graphics card *	✔
Discrete graphics card *	✔
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 4000
On-board graphics card base frequency	650 MHz
On-board graphics card dynamic frequency (max)	1300 MHz
On-board graphics card ID	0x166

Audio

Number of built-in speakers	2
Built-in microphone	✔

Network

Wi-Fi	✔
Wi-Fi standards	802.11a, 802.11g, Wi-Fi 4 (802.11n)
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	4.0
Cabling technology	10/100/1000Base-T(X)

Ports & interfaces

USB 2.0 ports quantity *	3
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
eSATA/USB 2.0 ports quantity	1
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1

Processor special features

Intel® Smart Cache	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel Trusted Execution Technology	✔
Intel Enhanced Halt State	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✗
Intel® Secure Key	✔
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	37.5 x 37.5 (rPGA988B); 31.0 x 24.0 (BGA1224)
Supported instruction sets	AVX
Processor code	SR0UT
CPU configuration (max)	1
Embedded options available	✗
Graphics & IMC lithography	22 nm
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1,00
Intel Secure Key Technology version	1,00
Intel Virtualization Technology (VT-x)	✔
Intel Dual Display Capable Technology	✔
Intel FDI Technology	✔
Intel Rapid Storage Technology	✗
Intel Fast Memory Access	✔
Processor ARK ID	70846
Conflict-Free processor	✔
Integrated 4G WiMAX	✔

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	6
Battery capacity *	65 Wh

Power

AC adapter power	180 W
DC-in jack	✔

Security

Cable lock slot	✗
Trusted Platform Module (TPM)	✔

Certificates

Compliance certificates	RoHS
Certification	BFR/PVC, CECP, CEC; EU, WEEE, GS Mark

Sustainability

Sustainability certificates	ENERGY STAR

Weight & dimensions

Width	378 mm
Depth	256 mm

Ports & interfaces

DVI port	✗
VGA (D-Sub) ports quantity	1
Firewire (IEEE 1394) ports	1
S/PDIF out port	✗
Microphone in	✗
Combo headphone/mic port	✔
Docking connector	✔
ExpressCard slot	✔
CardBus PCMCIA slot type	✗

Performance

Motherboard chipset	Intel® QM77 Express

Weight & dimensions

Height (front)	3,27 cm
Height (rear)	3,65 cm
Weight *	2,87 kg

Packaging content

AC adapter included *	✔
Cables included	AC
Manual	✔
Quick start guide	✔

Other features

Maximum internal memory (64-bit)	32 GB

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