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DELL Precision M2800 Intel® Core™ i7 i7-4810MQ Mobile workstation 15.6" Full HD 8 GB DDR3L-SDRAM 1 TB Hybrid-HDD AMD FirePro M4170M Windows 7 Professional Black, Silver

Brand : DELL   **Product family:** Precision   **Article code:** 2800-9502

Product name : M2800

Precision M2800 - Intel Core i7-4810MQ (6M Cache, up to 3.80 GHz), 8GB DDR3L 1600MHz, 1TB SSHD, 39.624 cm (15.6 ") FHD LED (1920 x 1080), Intel HD Graphics 4600 + AMD FirePro M4170M, DVD+/-RW, SCR, FPR, Gigabit Ethernet, Wi-Fi, 9-Cell, Windows 7 Professional 64-bit / Windows 8.1
DELL Precision M2800. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-4810MQ, Processor frequency: 2.8 GHz. Display diagonal: 15.6", HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 1 TB, Storage media: Hybrid-HDD, Optical drive type: DVD±RW. Operating system installed: Windows 7 Professional. Product color: Black, Silver
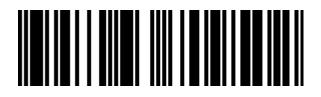
Design

Product type *	Mobile workstation
Product color *	Black, Silver
Form factor *	Clamshell
Market positioning	Business

Display

Display diagonal *	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	4th gen Intel® Core™ i7
Processor model *	i7-4810MQ
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	6 MB
Processor cache type	Smart Cache
Processor lithography	22 nm
Processor operating modes	64-bit
Processor series	Intel Core i7-4800 Mobile series
Processor codename	Haswell
Bus type	DMI2

Software

Operating system architecture	64-bit
Recovery operating system	Windows 8.1
Operating system installed *	Windows 7 Professional

Processor special features

Intel® Wireless Display (Intel® WiDi)	✔
Intel® My WiFi Technology (Intel® MWT)	✔
Intel Smart Connect Technology	✘
Intel® Anti-Theft Technology (Intel® AT)	✔
Intel® Rapid Start Technology	✘
Intel® Smart Response Technology	✘
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)	✘
Intel® Matrix Storage Technology (Intel® MST)	✘
Intel® High Definition Audio (Intel® HD Audio)	✘
Intel® Active Management Technology (Intel® AMT)	✘
Enhanced Intel SpeedStep Technology	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✘

Processor

FSB Parity	✗
Stepping	C0
Thermal Design Power (TDP)	47 W
Tjunction	100 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
PCI Express configurations	1x16, 2x8, 1x8+2x4
ECC supported by processor	✗

Memory

Internal memory *	8 GB
Internal memory type	DDR3L-SDRAM
Memory clock speed	1600 MHz
Memory form factor	SO-DIMM
Memory layout (slots x size)	2 x 4 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	16 GB

Storage

Total storage capacity *	1 TB
Storage media *	Hybrid-HDD
Number of HDDs installed	1
HDD interface	SATA
Hybrid-HDD cache type	Flash
Hybrid-HDD capacity	1 TB
Hybrid-HDD cache memory	8 GB
HDD size	2.5"
Optical drive type *	DVD±RW
Card reader integrated	✔

Graphics

Discrete graphics card model *	AMD FirePro M4170M
On-board graphics card *	✔
Discrete graphics card *	✔
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 4600
On-board graphics card base frequency	400 MHz
On-board graphics card dynamic frequency (max)	1300 MHz
Maximum on-board graphics card memory	1.74 GB
On-board graphics card DirectX version	11.1
On-board graphics card ID	0x416
Number of discrete graphics cards installed	1

Audio

Audio system	HD
Number of built-in speakers	2
Built-in microphone	✔

Camera

Front camera	✔
Front camera resolution	1280 x 720 pixels

Network

Wi-Fi	✔
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	4.0

Processor special features

Intel® InTru™ 3D Technology	✔
Intel® Insider™	✔
Intel® Quick Sync Video Technology	✔
Intel Flex Memory Access	✗
Intel® Smart Cache	✔
Intel QuickPath Interconnect	✔
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 TSX-NI	✗
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 x 4.7 mm
Supported instruction sets	AVX 2.0
Processor code	SR15K
CPU configuration (max)	1
Embedded options available	✗
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1.00
Intel Secure Key Technology version	1.00
Intel TSX-NI version	0.00
Intel Virtualization Technology (VT-x)	✔
Intel Dual Display Capable Technology	✗
Intel FDI Technology	✔
Intel Rapid Storage Technology	✗
Intel Fast Memory Access	✗
Processor ARK ID	78937
Conflict-Free processor	✔

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	9
Battery capacity *	97 Wh

Power

AC adapter power	130 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
AC adapter output voltage	19.5 V
DC-in jack	✔

Security

Cable lock slot	✔
Cable lock slot type	Kensington
Fingerprint reader	✔
Trusted Platform Module (TPM)	✔

Network

Bluetooth Low Energy (BLE)	✔

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
DVI port	✘
VGA (D-Sub) ports quantity	1
S/PDIF out port	✘
Microphone in	✘
Combo headphone/mic port	✔
Docking connector	✔
CardBus PCMCIA slot type	✘
SmartCard slot	✔

Performance

Motherboard chipset	Intel® QM87

Keyboard

Pointing device	Touchpad
Numeric keypad *	✔
Keyboard backlit	✔
Full-size keyboard	✔
Windows keys	✔

Security

Password protection	✔

Weight & dimensions

Width	14.9" (379 mm)
Depth	9.86" (250.5 mm)
Height	1.31" (33.4 mm)
Weight *	5.64 lbs (2.56 kg)

Packaging content

AC adapter included *	✔
Manual	✔
Power cord included	✔

Other features

Maximum internal memory (64-bit)	16 GB
Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x

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