HP Intel Core i7-4800MQ processor 2.7 GHz 6 MB L3 Tray

Brand : HP

Product code: 723524-002

Product name : Intel Core i7-4800MQ

Intel® Core™ i7-4800MQ Processor (6M Cache, up to 3.70 GHz)

HP Intel Core i7-4800MQ processor 2.7 GHz 6 MB L3 Tray:

The latest Intel® microarchitecture on the 22 nm manufacturing process delivers significant performance advancements—including vastly improved graphics, battery life, and security—for a zero-compromise computing experience. With key features such as Intel® Hyper-Threading Technology, that allows each processor core to work on two tasks at the same time for greater multitasking, to the Intel® Iris™ graphics for stunning 3-D visuals and faster, more advanced video and photo editing, the 4th generation Intel® Core™ i7 processor delivers top-of-the-line performance for your most demanding tasks. Learn more about 2 in 1 and tablet devices featuring Intel Core processors.

Processor	
Processor manufacturer *	Intel
Processor generation	4th gen Intel® Core™ i7
Processor model *	i7-4800MQ
Processor base frequency *	2.7 GHz
Processor family *	Intel® Core™ i7
Processor cores *	4
Processor socket *	PGA946
Processor lithography *	22 nm
Processor threads	8
System bus rate	5 GT/s
Processor operating modes *	64-bit
Processor boost frequency	3.7 GHz
Processor cache	6 MB
Processor cache type	L3
Thermal Design Power (TDP)	47 W
Package type *	Tray
Stepping	C0
Memory bandwidth supported by processor (max)	25.6 GB/s

Memory	
Maximum internal memory supported by processor	32 GB
Memory types supported by processor	DDR3L-SDRAM
Memory clock speeds supported by processor	1333,1600 MHz
Memory channels *	Dual-channel
ECC	✗

Graphics	
On-board graphics card *	✓
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
Number of displays supported (on-board graphics)	3

Features	
Execute Disable Bit	✓
Idle States	✓

Features	
Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
PCI Express configurations	1x16, 2x8, 1x8+2x4
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Embedded options available	✗

Processor special features	
Intel® Anti-Theft Technology (Intel® AT)	✓
Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Intel® Identity Protection Technology (Intel® IPT)	✓
Intel® Turbo Boost Technology	2.0
Intel® Quick Sync Video Technology	✓
Intel® InTru™ 3D Technology	✓
Intel® Wireless Display (Intel® WiDi)	✓
Intel FDI Technology	✓
Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Intel® Insider™	✓
Intel® Smart Cache	✓
Enhanced Intel SpeedStep Technology	✓
Intel Trusted Execution Technology	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel® Secure Key	✓
Intel TSX-NI	✓
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel® vPro™ Platform Eligibility	✓

Operational conditions	
Tjunction	100 °C

Other features	
Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x

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Features	
Thermal Monitoring Technologies	✔

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