



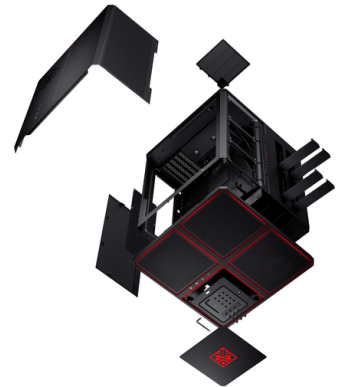
HP OMEN X 900-072a Intel® Core™ i7 i7-6700K 16 GB DDR4-SDRAM 3 TB 1000 GB 1000 NVIDIA® GeForce® GTX 1080 Windows 8.1
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Brand : HP

Product family: OMEN X

Product code: Y0M34AA

Product name : 900-072a



Processor		Ports & interfaces	
Processor manufacturer *	Intel	DVI port	×
Processor family *	Intel® Core™ i7	HDMI ports quantity *	1
Processor generation	6th gen Intel® Core™ i7	Ethernet LAN (RJ-45) ports	1
Processor model *	i7-6700K	Microphone in	×
Processor cores	4	Line-out	×
Processor threads	8	Line-in	×
Processor boost frequency	4.2 GHz	Combo headphone/mic port	✓
Processor frequency *	4 GHz	S/PDIF out port	✓
Processor socket	LGA 1151 (Socket H4)	Design	
Processor cache	8 MB	Chassis type *	Desktop
Processor cache type	Smart Cache	Product colour *	Black, Red
System bus rate	8 GT/s	Country of origin	China
Bus type	DMI2	Performance	
Processor lithography	14 nm	Market positioning	Gaming
Processor operating modes	64-bit	Product type *	PC
Processor series	Intel Core i7-6700 Desktop series	Software	
Processor codename	Skylake	Operating system installed *	Windows 8.1
Thermal Design Power (TDP)	91 W	Operating system architecture	64-bit
Tcase	64 °C	Processor special features	
PCI Express slots version	3.0	Intel® Small Business Advantage (Intel® SBA)	×
Maximum number of PCI Express lanes	16	Intel® Wireless Display (Intel® WiDi)	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel 64	✓
Number of processors installed	1		
Stepping	R0		
Maximum internal memory supported by processor	64 GB		

Processor		Processor special features	
Memory types supported by processor	DDR3L-SDRAM, DDR4-SDRAM	Enhanced Intel SpeedStep Technology	✓
Memory clock speeds supported by processor	1600,2133 MHz	Embedded options available	✗
Memory bandwidth supported by processor (max)	34.2 GB/s	Intel® InTru™ 3D Technology	✓
ECC supported by processor	✗	Intel® Insider™	✓
Memory		Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Internal memory *	16 GB	Intel Clear Video Technology	✓
Maximum internal memory *	32 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory type	DDR4-SDRAM	Intel TSX-NI	✓
Memory layout (slots x size)	2 x 8 GB	Idle States	✓
Memory slots	4x DIMM	Thermal Monitoring Technologies	✓
Memory clock speed	2133 MHz	Intel Stable Image Platform Program (SIPP)	✗
Memory channels	Dual-channel	Intel® AES New Instructions (Intel® AES-NI)	✓
Storage		Intel® Secure Key	✓
Total storage capacity *	3 TB	Intel® OS Guard	✓
Storage media *	HDD	Intel Trusted Execution Technology	✗
Optical drive type *	DVD Super Multi	Execute Disable Bit	✓
Number of storage drives installed	1	Intel Fast Memory Access	✓
Total HDDs capacity	3 TB	Intel® Smart Cache	✓
Number of HDDs installed	1	Intel Software Guard Extensions (Intel SGX)	✓
HDD capacity	3 TB	Processor package size	37.5 x 37.5 mm
HDD interface	SATA	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
HDD speed	7200 RPM	Scalability	15
Card reader integrated	✓	CPU configuration (max)	1
Compatible memory cards	SD, SDHC, SDXC	Graphics & IMC lithography	14 nm
Graphics		Thermal solution specification	PCG 2015D
Discrete graphics card *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card *	✓	Intel Identity Protection Technology version	1.00
Discrete graphics card model *	NVIDIA® GeForce® GTX 1080	Intel Stable Image Platform Program (SIPP) version	0.00
Discrete graphics card memory	8 GB	Intel Secure Key Technology version	1.00
Discrete graphics memory type	GDDR5X	Intel Virtualization Technology (VT-x)	✓
On-board graphics card model *	Intel® HD Graphics 530	Intel Small Business Advantage (SBA) version	1.00
On-board graphics card base frequency	350 MHz	Intel TSX-NI version	1.00
On-board graphics card dynamic frequency (max)	1150 MHz	Processor ARK ID	88195
Maximum on-board graphics card memory	1.7 GB	Intel® Turbo Boost Technology	2.0
Number of displays supported (on-board graphics)	3	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
On-board graphics card DirectX version	12.0	Intel® Quick Sync Video Technology	✓
On-board graphics card OpenGL version	4.4	Intel® My WiFi Technology (Intel® MWT)	✓
On-board graphics card ID	1912	Intel® Identity Protection Technology (Intel® IPT)	✓
Graphics card HDMI ports quantity	1	Intel® Anti-Theft Technology (Intel® AT)	✓
Graphics card DisplayPorts quantity	3	Conflict-Free processor	✓
Graphics card DVI ports quantity	1	Power	
Network		Power supply *	600 W
Ethernet LAN *	✓	Weight & dimensions	
Ethernet LAN data rates	10,100,1000 Mbit/s	Width *	504.2 mm
Wi-Fi *	✓	Depth *	406 mm
Top Wi-Fi standard	Wi-Fi 5 (802.11ac)	Height *	515.3 mm
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)		
Bluetooth	✓		
Bluetooth version	4.2		

Ports & interfaces		Weight & dimensions	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	8	Weight *	28.2 kg
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	2	Packaging content	
		Mouse included	×
		Keyboard included	×
		Display	
		Display included *	×

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