



# HP OMEN 25L GT12-0049na i7-10700F Tower Intel® Core™ i7 16 GB DDR4-SDRAM 2512 GB HDD+SSD Windows 10 Home PC Black

Brand : HP

Product family: OMEN

Product code: 1D4A0EA

Product name : 25L  
GT12-0049na

- Intel® Core™ i7-10700F (2.9 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 16 MB L3 cache, 8 cores)
  - Windows 10 Home 64 - free upgrade to Windows 11 when available
  - NVIDIA® GeForce® RTX 2070 SUPER™ (8 GB GDDR6 dedicated)
  - 16 GB memory; 2 TB HDD storage; 512 GB SSD storage
- OMEN 25L Desktop GT12-0049na PC, Windows 10 Home 64 - free upgrade to Windows 11 when available, Intel® Core™ i7, 16GB RAM, 512GB SSD, 2TB HDD, NVIDIA® GeForce® RTX 2070 SUPER™

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## Your future gaming self will thank you

It's gaming love at first sight. The OMEN 25L Desktop PC has got the looks and can back it up. With a power processor and graphics, you can play day one. And with being easy to upgrade and OMEN Gaming Hub, it's crafted for the long term.



Processor		Ports & interfaces	
Processor manufacturer *	Intel	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2
Processor generation	10th gen Intel® Core™ i7	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
Processor model *	i7-10700F	Ethernet LAN (RJ-45) ports	1
Processor family *	Intel® Core™ i7	Microphone in	✓
Processor cores	8	Headphone outputs	1
Processor frequency *	2.9 GHz	Line-out	✓
Processor boost frequency	4.8 GHz	Line-in	✓
Processor socket	LGA 1200 (Socket H5)	Combo headphone/mic port	✓
Processor cache	16 MB	M.2 card slot (storage)	3
Processor cache type	L3	Expansion slots	
Processor threads	16	PCI Express x1 slots	1
System bus rate	8 GT/s	PCI Express x16 slots	1
Processor lithography	14 nm	Design	
Processor operating modes	64-bit	Chassis type *	Tower
Processor codename	Comet Lake	Placement supported	Vertical
Thermal Design Power (TDP)	65 W	Number of 3.5" bays	2
Tjunction	100 °C	Cable lock slot	✓
PCI Express slots version	3.0	Cable lock slot type	Kensington
Maximum number of PCI Express lanes	16	Product colour *	Black
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® vPro™ Platform Eligibility	✗
Number of processors installed	1	Country of origin	China
Maximum internal memory supported by processor	128 GB		

Processor		Performance	
Memory types supported by processor	DDR4-SDRAM	Market positioning	Gaming
Memory clock speeds supported by processor	2933 MHz	Motherboard chipset	Intel H470
Memory bandwidth supported by processor (max)	45.8 GB/s	Motherboard form factor	micro ATX
<b>Memory</b>		Audio system	DTS Headphone:X
Internal memory *	16 GB	Audio output channels	5.1 channels
Internal memory type	DDR4-SDRAM	Product type *	PC
Memory layout (slots x size)	2 x 8 GB	<b>Software</b>	
Memory slots	2x DIMM	Operating system installed *	Windows 10 Home
Memory clock speed	2666 MHz	Operating system architecture	64-bit
ECC	✗	Pre-installed software	Alexa; Netflix; ExpressVPN; LastPass Premium
Internal memory manufacturer	HyperX	Trial software	McAfee LiveSafe, Microsoft Office 365
<b>Storage</b>		Bundled software	Dropbox
Card reader integrated	✗	<b>Processor special features</b>	
Total storage capacity *	2512 GB	Intel 64	✓
Storage media *	HDD+SSD	Enhanced Intel SpeedStep Technology	✓
Optical drive type *	✗	Embedded options available	✗
Number of storage drives installed	2	Intel VT-x with Extended Page Tables (EPT)	✓
Total HDDs capacity	2000 GB	Idle States	✓
Number of HDDs installed	1	Thermal Monitoring Technologies	✓
HDD capacity	2000 GB	Intel Stable Image Platform Program (SIPP)	✗
HDD interface	SATA	Intel® AES New Instructions (Intel® AES-NI)	✓
HDD speed	7200 RPM	Intel® Secure Key	✓
Total SSDs capacity	512 GB	Intel® OS Guard	✓
Number of SSDs installed	1	Intel Trusted Execution Technology	✗
SSD capacity	512 GB	Execute Disable Bit	✓
SSD interface	PCI Express, NVMe	Intel Software Guard Extensions (Intel SGX)	✓
NVMe	✓	Processor package size	37.5 x 37.5 mm
SSD form factor	M.2	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
<b>Graphics</b>		Scalability	1S
Discrete graphics card *	✓	CPU configuration (max)	1
Discrete GPU manufacturer	NVIDIA	Thermal solution specification	PCG 2015C
Discrete graphics card model *	NVIDIA GeForce RTX 2070 SUPER	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics memory type	GDDR6	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card memory	8 GB	Processor ARK ID	199318
Number of discrete graphics cards	1	Intel® Turbo Boost Technology	2.0
On-board graphics card *	✗	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
On-board graphics card model *	Not available	Intel® Identity Protection Technology (Intel® IPT)	✓
Graphics card HDMI ports quantity	1	<b>Brand-specific features</b>	
Graphics card DisplayPorts quantity	3	HP OMEN Command Center	✓
Graphics card USB Type-C ports quantity	1	HP Support Assistant	✓
<b>Network</b>		HP Software provided	HP Audio Switch
Ethernet LAN *	✓	HP segment	Home
Ethernet LAN data rates	10,100,1000 Mbit/s	<b>Power</b>	
Cabling technology	10/100/1000Base-T(X)	Power supply *	750 W
Wi-Fi *	✓	<b>Weight &amp; dimensions</b>	
Top Wi-Fi standard	Wi-Fi 6 (802.11ax)	Width *	165 mm
Wi-Fi standards	Wi-Fi 6 (802.11ax)	Depth *	369 mm
WLAN controller manufacturer	Intel	Height *	433 mm
WLAN controller model	Intel Wi-Fi 6 AX201	Weight *	11.5 kg
Antenna type	2x2	Package width	480 mm
Bluetooth	✓		
Bluetooth version	5.0		
MU-MIMO	✓		
Miracast	✓		

Ports & interfaces		Weight & dimensions	
USB 2.0 ports quantity *	2	Package depth	299 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Package height	542 mm
		Package weight	14.6 kg
Packaging content			
		Display included *	✘
Other features			
		Graphics card interface	PCIe x16



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