



# HP OMEN 16-k0391nd Intel® Core™ i7 i7-12700H Laptop 40.9 cm (16.1") Quad HD 16 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 3070 Ti Wi-Fi 6E (802.11ax) Windows 11 Home Black

Brand : HP

Product family: OMEN

Product code: 6L9B5EA#ABH

Product name : 16-k0391nd

HP OMEN 16-k0391nd. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-12700H, Processor frequency: 2.3 GHz. Display diagonal: 40.9 cm (16.1"), HD type: Quad HD, Display resolution: 2560 x 1440 pixels. Internal memory: 16 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel Iris Xe Graphics. Operating system installed: Windows 11 Home. Product colour: Black



| Design                     |   | Network   |                      |
|----------------------------|---|---|----------------------|
| Colour name                | Shadow black cover and base, shadow black aluminum keyboard frame | Ethernet LAN                                      | ✓                    |
| Product type *             | Laptop  | Ethernet LAN data rates                           | 10,100,1000 Mbit/s   |
| Product colour *           | Black   | Bluetooth   | ✓                    |
| Form factor *              | Clamshell   | Bluetooth version                                 | 5.3                  |
| Market positioning         | Gaming  | Cabling technology                                | 10/100/1000Base-T(X) |
| Introduction year          | 2022  | Ports & interfaces                                |                      |
| Original brand name        | HP  | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 3                    |
| Display                    |   | Ethernet LAN (RJ-45) ports                        | 1                    |
| Display diagonal *         | 40.9 cm (16.1")   | HDMI ports quantity *                             | 1                    |
| Display resolution *       | 2560 x 1440 pixels  | HDMI version                                      | 2.1                  |
| Touchscreen *              | ✗   | Thunderbolt 4 ports quantity                      | 2                    |
| HD type                    | Quad HD   | Intel® Thunderbolt 4                              | ✓                    |
| Panel type                 | IPS   | Combo headphone/mic port                          | ✓                    |
| Native aspect ratio        | 16:9  | USB Type-C DisplayPort Alternate Mode             | ✓                    |
| Anti-glare screen          | ✓   | USB Sleep-and-Charge                              | ✓                    |
| Display bezel technology   | Micro-Edge  | USB Sleep-and-Charge ports                        | 3                    |
| Display brightness         | 300 cd/m <sup>2</sup>   | Performance                                       |                      |
| Display diagonal (metric)  | 40.9 cm   | Motherboard chipset                               | Intel SoC            |
| RGB colour space           | sRGB  | Ambient light sensor                              | ✓                    |
| Colour gamut               | 100%  | Temperature sensor                                | ✓                    |
| Display response rise/fall | 3 ms  | Keyboard  |                      |
| Maximum refresh rate       | 165 Hz  | Pointing device                                   | Touchpad             |
| Processor                  |   | Numeric keypad *                                  | ✓                    |
| Processor manufacturer *   | Intel   | Keyboard backlit                                  | ✓                    |
| Processor family *         | Intel® Core™ i7   | Keyboard backlit colour                           | RGB                  |
| Processor generation       | 12th gen Intel® Core™ i7  | Keyboard backlit zone                             | 4-zone RGB           |
| Processor model *          | i7-12700H   | Full-size keyboard                                | ✓                    |
| Processor cores            | 20  |   |                      |
| Processor threads          | 20  |   |                      |

|  |                            |   |                           |
|--|----------------------------|---|---------------------------|
| <b>Processor</b>                               |                            | <b>Keyboard</b>   |                           |
| Processor boost frequency                      | 4.7 GHz                    | Keyboard layout   | QWERTY                    |
| Processor frequency *                          | 2.3 GHz                    | <b>Software</b>   |                           |
| Processor cache                                | 24 MB                      | Operating system installed *                            | Windows 11 Home           |
| Processor cache type                           | L3                         | <b>Processor special features</b>                       |                           |
| Configurable TDP-down                          | 35 W                       | Intel Flex Memory Access                                | ✓                         |
| <b>Memory</b>                                  |                            | Intel Trusted Execution Technology                      | ✓                         |
| Internal memory *                              | 16 GB                      | Intel VT-x with Extended Page Tables (EPT)              | ✓                         |
| Internal memory type                           | DDR5-SDRAM                 | Execute Disable Bit                                     | ✓                         |
| Memory clock speed                             | 4800 MHz                   | CPU configuration (max)                                 | 1                         |
| Memory layout (slots x size)                   | 2 x 8 GB                   | Embedded options available                              | ✗                         |
| Memory slots                                   | 2x SO-DIMM                 | Intel Virtualization Technology for Directed I/O (VT-d) | ✓                         |
| Memory slots (available)                       | 2                          | Intel Virtualization Technology (VT-x)                  | ✓                         |
| Number of free internal memory expansion slots | 2                          | <b>Brand-specific features</b>                          |                           |
| ECC  | ✗                          | HP Audio Boost  | ✓                         |
| Non-ECC  | ✓                          | HP Imagepad   | ✓                         |
| <b>Storage</b>                                 |                            | HP segment  | Home                      |
| Total storage capacity *                       | 1 TB                       | <b>Battery</b>  |                           |
| Storage media *                                | SSD                        | Battery technology                                      | Lithium Polymer (LiPo)    |
| Total SSDs capacity                            | 1 TB                       | Number of battery cells                                 | 6                         |
| Number of SSDs installed                       | 1                          | Battery capacity *                                      | 83 Wh                     |
| SSD capacity                                   | 1 TB                       | Battery life (max)                                      | 6.25 h                    |
| SSD memory type                                | TLC                        | Continuous video playback time                          | 7.75 h                    |
| SSD interface                                  | PCI Express, NVMe          | Fast charging   | ✓                         |
| NVMe   | ✓                          | Fast charging time (50%)                                | 30 min                    |
| SSD form factor                                | M.2                        | Battery weight  | 315 g                     |
| Optical drive type *                           | ✗                          | <b>Power</b>  |                           |
| Card reader integrated                         | ✓                          | AC adapter power  | 280 W                     |
| Compatible memory cards                        | SD                         | AC adapter frequency                                    | 50 - 60 Hz                |
| <b>Graphics</b>                                |                            | AC adapter input voltage                                | 100 - 240 V               |
| Discrete GPU manufacturer                      | NVIDIA                     | USB Type-C charging port *                              | ✓                         |
| Discrete graphics card model *                 | NVIDIA GeForce RTX 3070 Ti | USB Power Delivery (USB PD)                             | ✓                         |
| Discrete graphics card memory                  | 8 GB                       | <b>Security</b>   |                           |
| Discrete graphics memory type                  | GDDR6                      | Trusted Platform Module (TPM)                           | ✓                         |
| On-board graphics card *                       | ✓                          | Password protection                                     | ✓                         |
| On-board GPU manufacturer                      | Intel                      | Password protection type                                | BIOS, Power on, User      |
| Discrete graphics card *                       | ✓                          | <b>Sustainability</b>                                   |                           |
| On-board graphics card model *                 | Intel Iris Xe Graphics     | Sustainability compliance                               | ✓                         |
| <b>Audio</b>                                   |                            | Sustainability certificates                             | ENERGY STAR, EPEAT Silver |
| Audio system                                   | B&O PLAY                   | <b>Weight &amp; dimensions</b>                          |                           |
| Built-in speaker(s)                            | ✓                          | Width   | 369 mm                    |
| Number of built-in speakers                    | 2                          | Depth   | 248 mm                    |
| Speakers manufacturer                          | Bang & Olufsen             | Height  | 23 mm                     |
| Built-in microphone                            | ✓                          | Weight *  | 2.41 kg                   |
| Number of microphones                          | 2                          | <b>Packaging data</b>                                   |                           |
| <b>Camera</b>                                  |                            | Package width   | 69 mm                     |
| Front camera                                   | ✓                          | Package depth   | 552 mm                    |
| Front camera signal format                     | 720p                       | Package height  | 345 mm                    |
| Front camera HD type                           | HD                         | Package weight  | 3.9 kg                    |
| <b>Network</b>                                 |                            | <b>Packaging content</b>                                |                           |
| Top Wi-Fi standard *                           | Wi-Fi 6E (802.11ax)        | Keyboard included                                       | ✓                         |
| Wi-Fi standards                                | Wi-Fi 6E (802.11ax)        |   |                           |
| Mobile network connection *                    | ✗                          |   |                           |
| Antenna type                                   | 2x2                        |   |                           |
| WLAN controller model                          | Intel Wi-Fi 6E AX411       |   |                           |
| WLAN controller manufacturer                   | Intel                      |   |                           |

**Other features**

Number of speakers 2



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