



OMEN by HP 16-xd0503na AMD Ryzen™ 7 7840HS Laptop 40.9 cm (16.1") Full HD 16 GB DDR5-SDRAM 512 GB SSD NVIDIA GeForce RTX 4050 Wi-Fi 6E (802.11ax) Windows 11 Home Black



Brand : HP **Product family:** OMEN by HP **Product code:** 878R9EA
Product name : 16-xd0503na

- AMD Ryzen™ 7 7840HS (up to 5.1 GHz max boost clock, 16 MB L3 cache, 8 cores, 16 threads)
- Windows 11 Home
- 40.9 cm (16.1") diagonal FHD display
- NVIDIA® GeForce RTX™ 4050 Laptop GPU (6 GB GDDR6 dedicated)
- 16 GB memory; 512 GB SSD storage

OMEN Gaming Laptop 16-xd0503na, Windows 11 Home, 16.1", AMD Ryzen™ 7, 16GB RAM, 512GB SSD, NVIDIA® GeForce RTX™ 4050, FHD, Shadow black

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Enjoy powerful fun anywhere.

The OMEN 16 inch gaming laptop is ready to go wherever you are. Enjoy desktop-level power with a 7000 Series AMD Ryzen™ processor^[1] and a modern graphics card, both regulated by enhanced internal cooling. The screen is equally impressive with high resolution, smooth framerates, and anti-glare features.



| Design | | Network | |
|---------------------------|---------------------------------|---|----------------------|
| Colour name | Shadow black, black chrome logo | 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 | 2023 | Ports & interfaces | |
| Product design | Paint finish | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 3 |
| Original brand name | HP | USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity * | 1 |
| Display | | Ethernet LAN (RJ-45) ports | 1 |
| Display diagonal * | 40.9 cm (16.1") | HDMI ports quantity * | 1 |
| Display resolution * | 1920 x 1080 pixels | HDMI version | 2.1 |
| Touchscreen * | ✗ | Combo headphone/mic port | ✓ |
| HD type | Full HD | Charging port type | USB Type-C |
| Panel type | IPS | USB Type-C DisplayPort Alternate Mode | ✓ |
| Native aspect ratio | 16:9 | USB Power Delivery | ✓ |
| Anti-glare screen | ✓ | USB Sleep-and-Charge | ✓ |
| Display bezel technology | Micro-Edge | USB Sleep-and-Charge ports | 2 |
| Display brightness | 250 cd/m ² | Performance | |
| Display diagonal (metric) | 40.9 cm | Motherboard chipset | AMD SoC |
| RGB colour space | NTSC | Temperature sensor | ✓ |
| Colour gamut | 45% | Keyboard | |
| Maximum refresh rate | 144 Hz | Pointing device | Touchpad |
| Processor | | Numeric keypad * | ✗ |
| Processor manufacturer * | AMD | Keyboard backlit | ✓ |
| Processor family * | AMD Ryzen™ 7 | Keyboard backlit zone | 1-zone RGB |
| Processor model * | 7840HS | Full-size keyboard | ✓ |
| Processor cores | 8 | Keyboard colour name | shadow black |
| Processor threads | 16 | | |
| Processor boost frequency | 5.1 GHz | | |
| Processor frequency * | 3.8 GHz | | |
| Processor cache | 16 MB | | |

| | | | |
|--|-------------------------|---|---|
| Processor | | Software | |
| Processor cache type | L3 | | ExpressVPN (30 day free trial); LastPass Premium (30 day free trial), 1 month trial for new Microsoft 365 customers, McAfee Online Protection 30-day trial; Xbox Game Pass 1-month free trial |
| Memory | | Pre-installed software | |
| Internal memory * | 16 GB | Trial software | 25 GB Dropbox storage for 12 months |
| Internal memory type | DDR5-SDRAM | Operating system installed * | Windows 11 Home |
| Memory clock speed | 5600 MHz | Brand-specific features | |
| Memory form factor | SO-DIMM | HP Audio Boost | ✓ |
| Memory layout (slots x size) | 2 x 8 GB | HP speaker type | HP Dual Speakers |
| Memory slots (available) | 2 | HP Smart AC Adapter | ✓ |
| Number of free internal memory expansion slots | 2 | HP Imagepad | ✓ |
| Storage | | HP front camera | HP TrueVision FHD |
| Total storage capacity * | 512 GB | HP Security tools | Camera privacy shutter; Trusted Platform Module (Firmware TPM) support |
| Storage media * | SSD | HP Software provided | HP Support Assistant; HP Connection Optimizer; OMEN Gaming Hub; myHP |
| Total SSDs capacity | 512 GB | HP segment | Home |
| Number of SSDs installed | 1 | HP GTIN (EAN/UPEC) | 197497684476 |
| SSD capacity | 512 GB | Battery | |
| SSD memory type | TLC | Battery technology | Lithium Polymer (LiPo) |
| SSD interface | PCI Express | Number of battery cells | 6 |
| NVMe | ✓ | Battery capacity * | 83 Wh |
| SSD form factor | M.2 | Battery life (max) | 8 h |
| Optical drive type * | ✗ | Continuous video playback time | 10.75 h |
| Graphics | | Fast charging | ✓ |
| Discrete GPU manufacturer | NVIDIA | Fast charging time (50%) | 30 min |
| Discrete graphics card model * | NVIDIA GeForce RTX 4050 | Power | |
| Discrete graphics card memory | 6 GB | AC adapter power | 230 W |
| Discrete graphics memory type | GDDR6 | AC adapter frequency | 50 - 60 Hz |
| On-board graphics card * | ✓ | AC adapter input voltage | 100 - 240 V |
| On-board GPU manufacturer | AMD | Security | |
| Discrete graphics card * | ✓ | Trusted Platform Module (TPM) | ✓ |
| On-board graphics card family | AMD Radeon Graphics | Password protection | ✓ |
| On-board graphics card model * | AMD Radeon 780M | Password protection type | BIOS, Power on, User |
| AMD FreeSync | ✓ | Sustainability | |
| Audio | | Sustainability compliance | ✓ |
| Audio system | B&O PLAY | Sustainability certificates | ENERGY STAR, EPEAT Silver |
| Built-in speaker(s) | ✓ | Sustainable technologies and materials | |
| Number of built-in speakers | 2 | Ocean-bound plastic in speaker enclosure(s) and bezel; Keyboard mechanism made from agriculture waste; Keyboard keycaps and scissors contain post-consumer recycled plastic | |
| Speakers manufacturer | Bang & Olufsen | Weight & dimensions | |
| Built-in microphone | ✓ | Width | 369 mm |
| Number of microphones | 2 | Depth | 259.4 mm |
| Camera | | Height | 23.9 mm |
| Front camera | ✓ | Weight * | 2.37 kg |
| Front camera HD type | Full HD | Packaging data | |
| Network | | Package width | 69 mm |
| Top Wi-Fi standard * | Wi-Fi 6E (802.11ax) | Package depth | 552 mm |
| Wi-Fi standards | Wi-Fi 6E (802.11ax) | Package height | 345 mm |
| Mobile network connection * | ✗ | Package weight | 4.34 kg |
| Antenna type | 2x2 | Packaging content | |
| WLAN controller manufacturer | Realtek | Stylus pen | ✗ |

Logistics data

| | |
|-----------------------------|------------|
| Harmonized System (HS) code | 8471300000 |
|-----------------------------|------------|

Other features

| | |
|--------------------|---|
| Number of speakers | 2 |
|--------------------|---|



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