# HP OMEN 40L GT21-1020na Intel® Core™ i7 i7-13700K 64 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 4070 Windows 11 Home Tower PC Black

**Brand :** HP      **Product family:** OMEN      **Product code:** 8C6T8EA

**Product name :** GT21-1020na

- Intel® Core™ i7-13700K (up to 5.4 GHz with Intel® Turbo Boost Technology, 30 MB L3 cache, 16 cores, 24 threads)
- Windows 11 Home
- NVIDIA® GeForce RTX™ 4070 Ti (12 GB GDDR6X dedicated)
- 64 GB memory; 2 TB SSD storage
OMEN 40L Desktop GT21-1020na PC, Windows 11 Home, Intel® Core™ i7, 64GB RAM, 2TB SSD, NVIDIA® GeForce RTX™ 4070

HP OMEN 40L GT21-1020na Intel® Core™ i7 i7-13700K 64 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 4070 Windows 11 Home Tower PC Black:

Elevate your game to new heights
The OMEN by HP 40L Gaming Desktop is the ultimate companion on your gaming journey. Powered by the latest Intel® Processor[1] and advanced graphics, the OMEN Desktop has a superior cooling system that prevents overheating. Designed for easy tool-less upgradeability, the OMEN Desktop will give you the top-tier performance to meet your gaming needs.
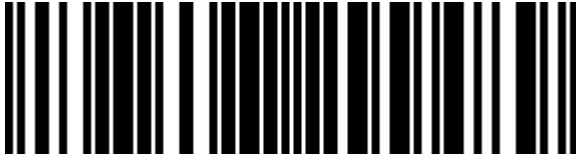
## Processor

| | |
|---|---|
| Processor manufacturer * | Intel |
| Processor family * | Intel® Core™ i7 |
| Processor generation | 13th gen Intel® Core™ i7 |
| Processor model * | i7-13700K |
| Processor cores | 16 |
| Processor threads | 24 |
| Processor boost frequency | 5.4 GHz |
| Performance-core Max Turbo Frequency | 5.3 GHz |
| Efficient-core Max Turbo Frequency | 4.2 GHz |
| Performance-core base frequency | 3.4 GHz |
| Efficient-core base frequency | 2.5 GHz |
| Processor cache | 30 MB |
| Processor cache type | L3 |
| Bus type | DMI4 |
| Number of processors installed | 1 |

### Memory

| | |
|---|---|
| Internal memory * | 64 GB |
| Maximum internal memory * | 128 GB |
| Internal memory type | DDR5-SDRAM |
| Memory layout (slots x size) | 4 x 16 GB |
| Memory slots | 4x DIMM |
| Memory clock speed | 5200 MHz |
| Internal memory manufacturer | HyperX |

## Ports & interfaces

| | |
|---|---|
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 2 |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity * | 1 |
| DisplayPorts quantity | 3 |
| Ethernet LAN (RJ-45) ports | 1 |
| Microphone in | ✔ |
| Line-out | ✔ |
| Line-in | ✔ |
| Combo headphone/mic port | ✔ |

## Expansion slots

| | |
|---|---|
| PCI Express x4 slots | 3 |
| PCI Express x16 slots | 1 |

## Design

| | |
|---|---|
| Chassis type * | Tower |
| Colour name | Black, glass side panel, dark chrome logo |
| Water cooling system | ✔ |
| Product colour * | Black |
| RGB memory lighting | ✔ |
| Introduction year | 2023 |

## Performance

| | |
|---|---|
| Market positioning | Gaming |

## Storage

| | |
|---|---|
| Total storage capacity * | 2 TB |
| Storage media * | SSD |
| Optical drive type * | ✘ |
| Number of storage drives installed | 1 |
| Total SSDs capacity | 2 TB |
| Number of SSDs installed | 1 |
| SSD capacity | 2 TB |
| SSD memory type | TLC |
| SSD interface | PCI Express |
| SSD form factor | M.2 |

## Graphics

| | |
|---|---|
| Discrete graphics card * | ✔ |
| Discrete GPU manufacturer | NVIDIA |
| On-board graphics card * | ✔ |
| Discrete graphics card model * | NVIDIA GeForce RTX 4070 |
| Discrete graphics card memory | 12 GB |
| Discrete graphics memory type | GDDR6X |
| Number of discrete graphics cards | 1 |
| On-board GPU manufacturer | Intel |
| On-board graphics card model * | Intel UHD Graphics 770 |
| Graphics card HDMI ports quantity | 1 |
| Graphics card DisplayPorts quantity | 3 |

## Network

| | |
|---|---|
| Ethernet LAN * | ✔ |
| Ethernet LAN data rates | 10,100,1000 Mbit/s |
| Cabling technology | 10/100/1000Base-T(X) |
| Wi-Fi * | ✔ |
| Top Wi-Fi standard | Wi-Fi 6E (802.11ax) |
| Wi-Fi standards | Wi-Fi 6E (802.11ax) |
| WLAN controller manufacturer | Intel |
| WLAN controller model | Intel Wi-Fi 6E AX211 |
| Antenna type | 2x2 |
| Bluetooth | ✔ |
| Bluetooth version | 5.2 |

## Ports & interfaces

| | |
|---|---|
| USB 2.0 ports quantity * | 4 |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 4 |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity * | 1 |

## Performance

| | |
|---|---|
| Motherboard chipset | Intel Z790 |
| Motherboard form factor | micro ATX |
| Audio system | DTS:X Ultra |
| Audio output channels | 5.1 channels |
| Password protection | ✔ |
| Password protection type | BIOS, Power on, User |
| Product type * | PC |

## Software

| | |
|---|---|
| Operating system installed * | Windows 11 Home |
| Pre-installed software | 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 |
| Trial software | 25 GB Dropbox storage for 12 months |

## Processor special features

| | |
|---|---|
| CPU configuration (max) | 1 |
| Intel Extreme Memory Profile (XMP) | ✔ |

## Brand-specific features

| | |
|---|---|
| HP Support Assistant | ✔ |
| HP Security tools | Chassis side cover lock |
| HP Software provided | HP Connection Optimizer; HP Support Assistant; OMEN Gaming Hub; HP Enhanced Lighting; myHP |
| HP GTIN (EAN/UPC) | 197497299489 |
| HP segment | Home |

## Power

| | |
|---|---|
| Power supply * | 800 W |
| Power supply input voltage | 100 - 240 V |
| Power supply input frequency | 50 - 60 Hz |
| 80 PLUS certification | 80 PLUS Gold |

## Sustainability

| | |
|---|---|
| Sustainability compliance | ✔ |
| Sustainability certificates | ENERGY STAR, EPEAT Gold |
| Sustainable technologies and materials | Water based paint |

## Weight & dimensions

| | |
|---|---|
| Width * | 204 mm |
| Depth * | 470 mm |
| Height * | 467 mm |
| Weight * | 18.7 kg |
| Package width | 592 mm |
| Package depth | 328 mm |
| Package height | 582 mm |
| Package weight | 19.3 kg |

## Packaging content

| | |
|---|---|
| Display included * | ✘ |

## Logistics data

| | |
|---|---|
| Harmonized System (HS) code | 8471500000 |

## Carbon footprint

| | |
|---|---|
| Total carbon footprint (kg of CO2e) | 220 |
| Carbon emissions, manufacturing (kg of CO2e) | 132 |
| Carbon emissions, logistics (kg of CO2e) | 2 |
| Carbon emissions, end-of-life (kg of CO2e) | 2 |

## Carbon footprint

| | |
|---|---|
| Total carbon emissions, w/o use phase (kg of $CO_2e$) | 86 |

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