



HP ZBook Power 15.6 G9 Intel® Core™ i9 i9-12900H Mobile workstation 39.6 cm (15.6") Full HD 32 GB DDR5-SDRAM 1 TB SSD Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : HP

Product family: ZBook Power

Product code: 6B8C9EA

Product name : 15.6 G9

HP ZBook Power 15.6 G9. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i9, Processor model: i9-12900H. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 32 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 Pro. Product colour: Grey. Weight: 1.93 kg



| Design | | Network | |
|---------------------------|--------------------------|---|------------------------|
| Product type * | Mobile workstation | Bluetooth | ✓ |
| Product colour * | Grey | Bluetooth version | 5.3 |
| Form factor * | Clamshell | Ports & interfaces | |
| Market positioning | Performance | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 3 |
| Introduction year | 2022 | USB 3.2 Gen 2x2 Type-C ports quantity | 1 |
| Country of origin | China | Combo headphone/mic port | ✓ |
| Display | | USB Type-C DisplayPort Alternate Mode | ✓ |
| Display diagonal * | 39.6 cm (15.6") | USB Sleep-and-Charge | ✓ |
| Display resolution * | 1920 x 1080 pixels | USB Sleep-and-Charge ports | 1 |
| Touchscreen * | ✗ | Keyboard | |
| HD type | Full HD | Keyboard special features | Étanche |
| Panel type | IPS | Pointing device | Clickpad |
| Native aspect ratio | 16:9 | Numeric keypad * | ✓ |
| Anti-glare screen | ✓ | Keyboard backlit | ✓ |
| Display bezel technology | Micro-Edge | Spill-resistant keyboard | ✓ |
| Display brightness | 400 cd/m ² | Full-size keyboard | ✓ |
| Display diagonal (metric) | 39.6 cm | Input device model | Clavier HP Premium Pro |
| RGB colour space | NTSC | Software | |
| Colour gamut | 72% | Operating system installed * | Windows 11 Pro |
| Processor | | Processor special features | |
| Processor manufacturer * | Intel | Intel Flex Memory Access | ✓ |
| Processor family * | Intel® Core™ i9 | Intel Trusted Execution Technology | ✓ |
| Processor generation | 12th gen Intel® Core™ i9 | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Processor model * | i9-12900H | Intel Stable Image Platform Program (SIPP) | ✓ |
| Processor cores | 14 | Execute Disable Bit | ✓ |
| Processor threads | 20 | CPU configuration (max) | 1 |
| Processor boost frequency | 5 GHz | Embedded options available | ✗ |
| Processor cache | 24 MB | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Processor cache type | L3 | | |
| Configurable TDP-down | 35 W | | |
| Memory | | | |
| Internal memory * | 32 GB | | |
| Internal memory type | DDR5-SDRAM | | |
| Memory clock speed | 4800 MHz | | |
| Memory form factor | SO-DIMM | | |

| | | | |
|--|------------------------|---|---|
| Memory | | Processor special features | |
| Memory layout (slots x size) | 1 x 32 GB | Intel Virtualization Technology (VT-x) | ✓ |
| Memory slots | 2x SO-DIMM | Brand-specific features | |
| Number of free internal memory expansion slots | 1 | HP JumpStart | ✓ |
| Memory channels | Dual-channel | HP speaker type | HP Dual Speakers |
| Storage | | HP Connection Optimizer | ✓ |
| Total storage capacity * | 1 TB | HP Support Assistant | ✓ |
| Storage media * | SSD | HP Smart AC Adapter | ✓ |
| Total SSDs capacity | 1 TB | HP Device Access Manager; HP Power On Authentication; HP Security Manager; HP Sure Click; Windows Defender; HP Secure Erase; HP Manageability Integration Kit; HP Sure Sense; HP Secure Platform; HP Sure Recover Gen3; HP BIOSphere Gen6; HP Sure Start Gen6; HP Sure Run Gen3; HP Tamper Lock; Nano Security Lock Slot; HP Client Security Suite Gen7 | |
| Number of SSDs installed | 1 | HP Security tools | HP Hotkey Support; HP Performance Advisor; HP Recovery Manager; HP Remote Graphics Software; HP Support Assistant; HP JumpStart; HP Connection Optimizer; HP Cloud Recovery; HP Admin; HP Privacy Settings; HP QuickDrop; HP Easy Clean; HP PC Hardware Diagnostics; HP ZCentral Remote Boost 2020 Software for Z workstation; HP Auto Lock and Awake |
| SSD capacity | 1 TB | HP Software provided | |
| SSD memory type | TLC | HP segment | |
| SSD interface | PCI Express, NVMe | Business | |
| NVMe | ✓ | Battery | |
| SSD form factor | M.2 | Battery technology | Lithium Polymer (LiPo) |
| Graphics | | Number of battery cells | 6 |
| Discrete GPU manufacturer | NVIDIA | Battery capacity * | 83 Wh |
| Discrete graphics card memory | 4 GB | Power | |
| Discrete graphics memory type | GDDR6 | AC adapter power | 150 W |
| On-board graphics card * | ✓ | USB Type-C charging port * | ✓ |
| On-board GPU manufacturer | Intel | USB Power Delivery (USB PD) | ✓ |
| Discrete graphics card * | ✓ | Security | |
| On-board graphics card family | Intel Iris Xe Graphics | Cable lock slot | ✓ |
| On-board graphics card model * | Intel Iris Xe Graphics | Fingerprint reader | ✓ |
| Number of discrete graphics cards | 1 | Smart card reader | ✓ |
| Audio | | Trusted Platform Module (TPM) | ✓ |
| Built-in speaker(s) | ✓ | Trusted Platform Module (TPM) version | 2.0 |
| Number of built-in speakers | 2 | Password protection | ✓ |
| Built-in microphone | ✓ | Password protection type | BIOS, Power on, User |
| Number of microphones | 2 | Certificates | |
| Camera | | Low halogen | ✓ |
| Front camera | ✓ | Sustainability | |
| Front camera signal format | 720p | Sustainability compliance | ✓ |
| Front camera HD type | HD | Sustainability certificates | TCO |
| Infrared (IR) camera | ✓ | Weight & dimensions | |
| Network | | Width | 359.4 mm |
| Wi-Fi | ✓ | Depth | 233.9 mm |
| Top Wi-Fi standard * | Wi-Fi 6E (802.11ax) | Height | 22.8 mm |
| Wi-Fi standards | Wi-Fi 6E (802.11ax) | Weight * | 1.93 kg |
| Mobile network connection * | ✗ | Packaging data | |
| Antenna type | 2x2 | Package width | 552 mm |
| WLAN controller model | Intel Wi-Fi 6E AX211 | | |
| WLAN controller manufacturer | Intel | | |

Packaging data

| | |
|----------------|--------|
| Package depth | 69 mm |
| Package height | 345 mm |

Packaging content

| | |
|-------------------|---|
| Keyboard included | ✓ |
|-------------------|---|

Other features

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



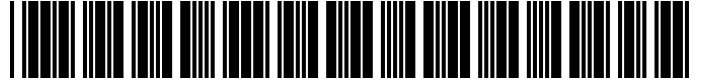
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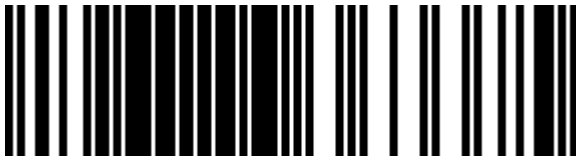
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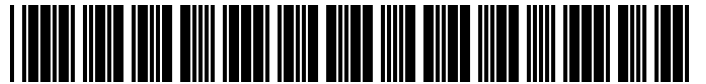
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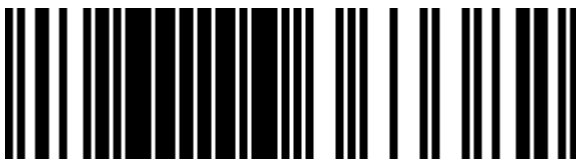
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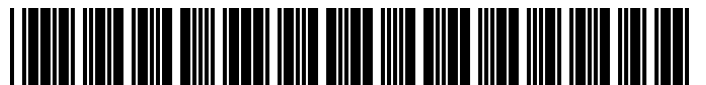
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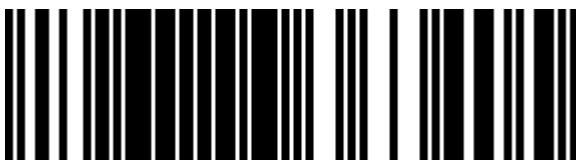
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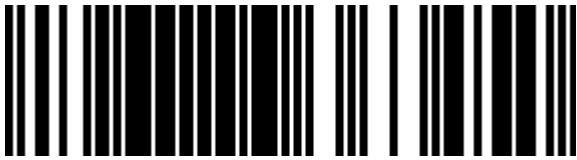
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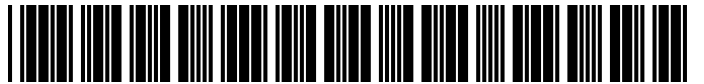
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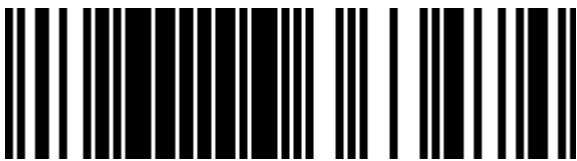
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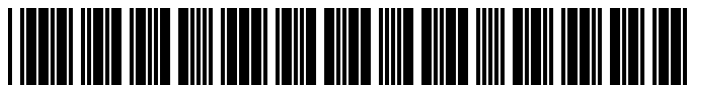
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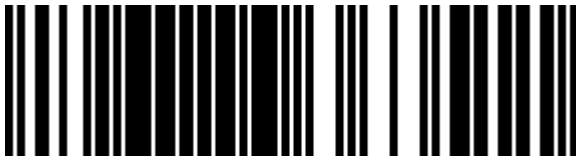
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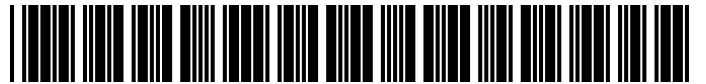
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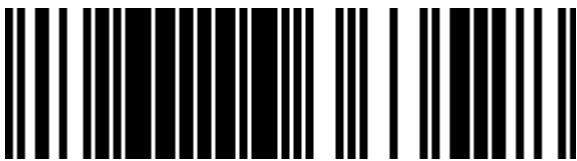
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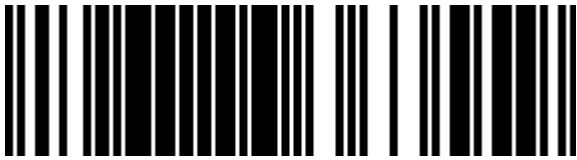
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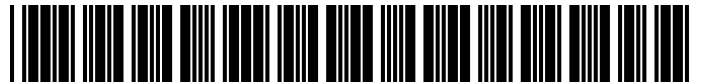
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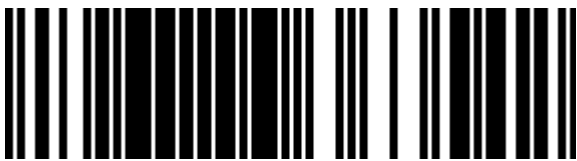
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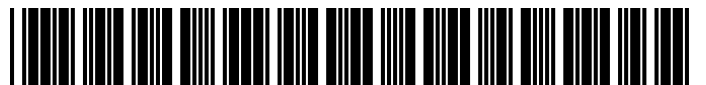
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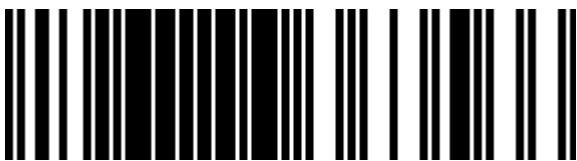
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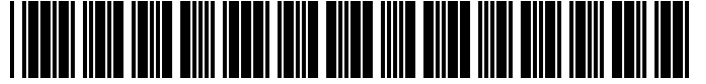
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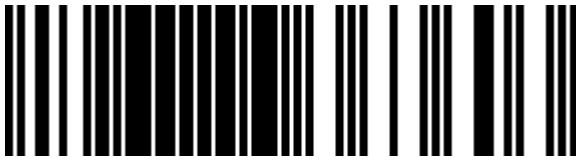
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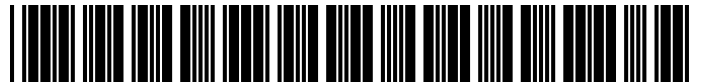
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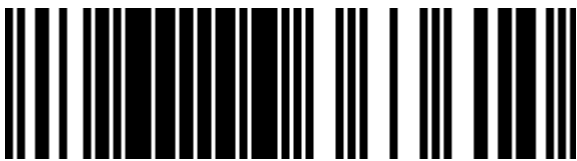
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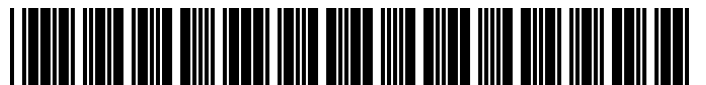
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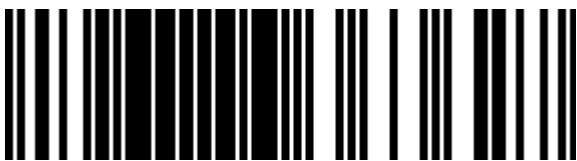
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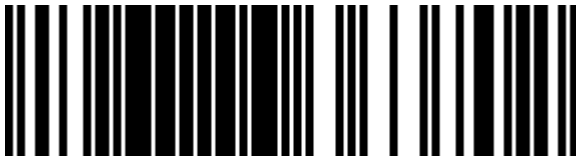
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