

Samsung NP960XHAA-EXP Intel Core Ultra 5 256V Laptop 40.6 cm (16") Touchscreen 2.8K 16 GB LPDDR5x-SDRAM 512 GB SSD Wi-Fi 7 (802.11be) Windows 11 Home Grey

Brand : Samsung

Product code: NP960XHA-KG3DE

Product name : NP960XHAA-EXP



Samsung NP960XHAA-EXP. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 5, Processor model: 256V. Display diagonal: 40.6 cm (16"), HD type: 2.8K, Display resolution: 2880 x 1800 pixels, Touchscreen. Internal memory: 16 GB, Internal memory type: LPDDR5x-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel Arc Graphics 130V. Operating system installed: Windows 11 Home. Product colour: Grey

| Design                                       |                                                | Graphics                                          |                                                                                                                               |
|----------------------------------------------|------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Product type *                               | Laptop                                         | On-board graphics card OpenGL version             | 4.6                                                                                                                           |
| Product colour *                             | Grey                                           | On-board graphics card 8K support                 | ✓                                                                                                                             |
| Form factor *                                | Clamshell                                      |                                                   |                                                                                                                               |
| Display                                      |                                                | Audio                                             |                                                                                                                               |
| Display diagonal *                           | 40.6 cm (16")                                  | Audio system                                      | Dolby Atmos                                                                                                                   |
| Display resolution *                         | 2880 x 1800 pixels                             | Number of built-in speakers                       | 4                                                                                                                             |
| Touchscreen *                                | ✓                                              | Built-in subwoofer                                | ✓                                                                                                                             |
| HD type                                      | 2.8K                                           | Built-in microphone                               | ✓                                                                                                                             |
| Panel type                                   | AMOLED                                         | Number of microphones                             | 2                                                                                                                             |
| Native aspect ratio                          | 16:10                                          |                                                   |                                                                                                                               |
| Anti-glare screen                            | ✓                                              | Camera                                            |                                                                                                                               |
| Display brightness                           | 400 cd/m²                                      | Front camera                                      | ✓                                                                                                                             |
| Maximum display brightness (HDR)             | 500 cd/m²                                      | Front camera resolution (numeric)                 | 2 MP                                                                                                                          |
| Maximum refresh rate                         | 120 Hz                                         |                                                   |                                                                                                                               |
| Processor                                    |                                                | Network                                           |                                                                                                                               |
| Processor manufacturer *                     | Intel                                          | Top Wi-Fi standard *                              | Wi-Fi 7 (802.11be)                                                                                                            |
| Processor family *                           | Intel Core Ultra 5                             |                                                   | 802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax), Wi-Fi 6E (802.11ax), Wi-Fi 7 (802.11be) |
| Processor generation                         | Intel Core Ultra (Series 2)                    | Wi-Fi standards                                   |                                                                                                                               |
| Processor model *                            | 256V                                           | Mobile network connection *                       | ✗                                                                                                                             |
| Processor cores                              | 8                                              | Antenna type                                      | 2x2                                                                                                                           |
| Processor threads                            | 8                                              | Ethernet LAN                                      | ✓                                                                                                                             |
| Processor boost frequency                    | 4.5 GHz                                        | Bluetooth                                         | ✓                                                                                                                             |
| Performance cores                            | 4                                              | Bluetooth version                                 | 5.4                                                                                                                           |
| Low Power Efficient-cores                    | 4                                              |                                                   |                                                                                                                               |
| Performance-core Max Turbo Frequency         | 4.5 GHz                                        | Ports & interfaces                                |                                                                                                                               |
| Low Power Efficient-core Max Turbo Frequency | 3.5 GHz                                        | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 1                                                                                                                             |
| Performance-core base frequency              | 2.1 GHz                                        | HDMI ports quantity *                             | 1                                                                                                                             |
| Low Power Efficient-core Base Frequency      | 2.1 MHz                                        | HDMI version                                      | 2.1                                                                                                                           |
| Processor cache                              | 8 MB                                           | Thunderbolt 4 ports quantity                      | 2                                                                                                                             |
| Processor cache type                         | Smart Cache                                    | Intel® Thunderbolt 4                              | ✓                                                                                                                             |
| Tjunction                                    | 100 °C                                         | Combo headphone/mic port                          | ✓                                                                                                                             |
| Processor base power                         | 17 W                                           |                                                   |                                                                                                                               |
| Maximum turbo power                          | 37 W                                           | Keyboard                                          |                                                                                                                               |
| Neural processor unit (NPU)                  |                                                | Pointing device                                   | Touchpad                                                                                                                      |
| Neural processor unit (NPU)                  | Intel AI Boost                                 | Numeric keypad *                                  | ✓                                                                                                                             |
| Sparsity support                             | ✓                                              | Keyboard backlit                                  | ✓                                                                                                                             |
| Windows Studio effects support               | ✓                                              |                                                   |                                                                                                                               |
| AI software frameworks supported by NPU      | DirectML, ONNX RT, OpenVINO, WebNN, Windows ML | Software                                          |                                                                                                                               |
|                                              |                                                | Operating system installed *                      | Windows 11 Home                                                                                                               |
|                                              |                                                | Processor special features                        |                                                                                                                               |
|                                              |                                                | Intel Trusted Execution Technology                | ✓                                                                                                                             |

| Neural processor unit (NPU)            |                                            | Processor special features                              |                         |
|----------------------------------------|--------------------------------------------|---------------------------------------------------------|-------------------------|
| NPU performance up to                  | 40 TOPs                                    | Intel VT-x with Extended Page Tables (EPT)              | ✓                       |
| Memory                                 |                                            | Intel® Secure Key                                       | ✓                       |
| Internal memory *                      | 16 GB                                      | Intel® OS Guard                                         | ✓                       |
| Internal memory type                   | LPDDR5x-SDRAM                              | Execute Disable Bit                                     | ✓                       |
| Memory form factor                     | On-board                                   | Supported instruction sets                              | AVX 2.0, SSE4.1, SSE4.2 |
| Storage                                |                                            | CPU configuration (max)                                 | 1                       |
| Total storage capacity *               | 512 GB                                     | Intel Virtualization Technology for Directed I/O (VT-d) | ✓                       |
| Storage media *                        | SSD                                        | Intel® Smart Sound Technology                           | ✓                       |
| Total SSDs capacity                    | 512 GB                                     | Intel Virtualization Technology (VT-x)                  | ✓                       |
| Number of SSDs installed               | 1                                          | Battery                                                 |                         |
| SSD capacity                           | 512 GB                                     | Battery technology                                      | Lithium-Ion (Li-Ion)    |
| NVMe                                   | ✓                                          | Battery capacity *                                      | 73.9 Wh                 |
| Optical drive type *                   | ✗                                          | Battery life (max)                                      | 25 h                    |
| Card reader integrated                 | ✓                                          | Power                                                   |                         |
| Compatible memory cards                | MicroSD (TransFlash), MicroSDHC, MicroSDXC | AC adapter power                                        | 65 W                    |
| Graphics                               |                                            | USB Type-C charging port *                              | ✓                       |
| Discrete graphics card model *         | Not available                              | Security                                                |                         |
| On-board graphics card *               | ✓                                          | Fingerprint reader                                      | ✓                       |
| Discrete graphics card *               | ✗                                          | Trusted Platform Module (TPM)                           | ✓                       |
| On-board graphics card family          | Intel Arc Graphics                         | Trusted Platform Module (TPM) version                   | 2.0                     |
| On-board graphics card model *         | Intel Arc Graphics 130V                    | Weight & dimensions                                     |                         |
| On-board graphics card DirectX version | 12.2                                       | Width                                                   | 355.4 mm                |
|                                        |                                            | Depth                                                   | 250.4 mm                |
|                                        |                                            | Height                                                  | 12.5 mm                 |
|                                        |                                            | Weight *                                                | 1.56 kg                 |



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### **Catalog Object Cloud**



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