

# ASUS Vivobook Pro 15 OLED N6506MU-MA068W Intel Core Ultra 9 185H Laptop 39,6 cm (15.6") 3K 24 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 4050 Wi-Fi 6E (802.11ax) Windows 11 Home Grau



**Marke :** ASUS

**Produktfamilie:** Vivobook

**Artikel-Code:** 90NB12Z3-M00380

**Produktname :** N6506MU-MA068W

- Windows 11 Home 64-bit  
 - Intel Core Ultra 9 185H (24MB Cache)  
 - 39.6 cm (15.6") 3K 2880 x 1620 OLED, NVIDIA GeForce RTX 4050 (6GB GDDR6)  
 - 24GB DDR5-SDRAM & 1000GB SSD  
 Intel Core Ultra 9 185H (24MB Cache), 24GB DDR5-SDRAM, 1000GB SSD, 39.6 cm (15.6") 3K 2880 x 1620 OLED, Intel Arc Graphics, NVIDIA GeForce RTX 4050 (6GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home 64-bit  
 ASUS Vivobook Pro 15 OLED N6506MU-MA068W. Produkttyp: Laptop, Formfaktor: Klappgehäuse.  
 Prozessorfamilie: Intel Core Ultra 9, Prozessor: 185H. Bildschirmdiagonale: 39,6 cm (15.6"), HD-Typ: 3K, Display-Auflösung: 2880 x 1620 Pixel. Speicherkapazität: 24 GB, Interner Speichertyp: DDR5-SDRAM. Gesamtspeicherkapazität: 1 TB, Speichermedien: SSD. Eingebautes Grafikkartenmodell: Intel Arc Graphics, Separates Grafikkartenmodell: NVIDIA GeForce RTX 4050. Installiertes Betriebssystem: Windows 11 Home. Produktfarbe: Grau

| Design                              |                               | Graphics                                          |                     |
|-------------------------------------|-------------------------------|---------------------------------------------------|---------------------|
| Colour name                         | Earl Grey                     | Discrete graphics card memory                     | 6 GB                |
| Product type *                      | Laptop                        | Discrete graphics memory type                     | GDDR6               |
| Product colour *                    | Grey                          | On-board graphics card *                          | ✓                   |
| Form factor *                       | Clamshell                     | On-board GPU manufacturer                         | Intel               |
| Display                             |                               | Discrete graphics card *                          | ✓                   |
| Display diagonal *                  | 39.6 cm (15.6")               | On-board graphics card family                     | Intel Arc Graphics  |
| Display resolution *                | 2880 x 1620 pixels            | On-board graphics card model *                    | Intel Arc Graphics  |
| Touchscreen *                       | ✗                             | Audio                                             |                     |
| HD type                             | 3K                            | Audio system                                      | Smart Amp           |
| Panel type                          | OLED                          | Speakers manufacturer                             | Harman Kardon       |
| Native aspect ratio                 | 16:9                          | Built-in microphone                               | ✓                   |
| Display surface                     | Gloss                         | Camera                                            |                     |
| Display brightness                  | 400 cd/m²                     | Front camera                                      | ✓                   |
| Maximum display brightness (HDR)    | 600 cd/m²                     | Front camera resolution (numeric)                 | 5 MP                |
| RGB colour space                    | DCI-P3                        | Infrared (IR) camera                              | ✓                   |
| Colour gamut                        | 100%                          | Infrared (IR) camera                              | ✓                   |
| Display response rise/fall          | 0.2 ms                        | Privacy camera                                    | ✓                   |
| Maximum refresh rate                | 120 Hz                        | Privacy type                                      | Privacy shutter     |
| Display number of colours           | 1.073 billion colours         | Network                                           |                     |
| Contrast ratio (typical)            | 1000000:1                     | Top Wi-Fi standard *                              | Wi-Fi 6E (802.11ax) |
| High Dynamic Range (HDR) supported  | ✓                             | Wi-Fi standards                                   | Wi-Fi 6E (802.11ax) |
| High Dynamic Range (HDR) technology | HDR True Black 600            | Mobile network connection *                       | ✗                   |
| Processor                           |                               | Antenna type                                      | 2x2                 |
| Processor manufacturer *            | Intel                         | Ethernet LAN                                      | ✓                   |
| Processor family *                  | Intel Core Ultra 9            | Ethernet LAN data rates                           | 10,100,1000 Mbit/s  |
| Processor generation                | Intel® Core™ Ultra (Series 1) | Bluetooth                                         | ✓                   |
| Processor model *                   | 185H                          | Bluetooth version                                 | 5.3                 |
| Processor cores                     | 16                            | Ports & interfaces                                |                     |
| Processor threads                   | 22                            | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 2                   |
| Processor boost frequency           | 5.1 GHz                       | USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity   | 1                   |
| Performance cores                   | 6                             |                                                   |                     |

| Processor                                    |                                         | Ports & interfaces                    |                           |
|----------------------------------------------|-----------------------------------------|---------------------------------------|---------------------------|
| Efficient cores                              | 8                                       | Ethernet LAN (RJ-45) ports            | 1                         |
| Low Power Efficient-cores                    | 2                                       | HDMI ports quantity *                 | 1                         |
| Performance-core Max Turbo Frequency         | 5.1 GHz                                 | HDMI version                          | 2.1                       |
| Efficient-core Max Turbo Frequency           | 3.8 GHz                                 | Thunderbolt 4 ports quantity          | 1                         |
| Low Power Efficient-core Max Turbo Frequency | 2.5 GHz                                 | Intel® Thunderbolt 4                  | ✓                         |
| Performance-core base frequency              | 2.3 GHz                                 | Combo headphone/mic port              | ✓                         |
| Efficient-core base frequency                | 1.8 GHz                                 | Power adapter barrel connector        | 6.0 mm                    |
| Low Power Efficient-core Base Frequency      | 1000 MHz                                | USB Type-C DisplayPort Alternate Mode | ✓                         |
| Processor cache                              | 24 MB                                   | Keyboard                              |                           |
| Processor cache type                         | Smart Cache                             | Pointing device                       | Touchpad                  |
| Processor base power                         | 45 W                                    | Numeric keypad *                      | ✓                         |
| Maximum turbo power                          | 115 W                                   | Keyboard backlit                      | ✓                         |
| Neural processor unit (NPU)                  |                                         | Software                              |                           |
| Neural processor unit (NPU)                  | Intel AI Boost                          | Operating system architecture         | 64-bit                    |
| Maximum frequency NPU                        | 1.4 GHz                                 | Operating system installed *          | Windows 11 Home           |
| Sparsity support                             | ✓                                       | Battery                               |                           |
| Windows Studio effects support               | ✓                                       | Battery technology                    | Lithium-Ion (Li-Ion)      |
| AI datatype support on NPU                   | FP16, FP32, Int8                        | Number of battery cells               | 4                         |
| AI software frameworks supported by NPU      | DirectML, ONNX RT, OpenVINO, Windows ML | Battery capacity *                    | 75 Wh                     |
| Memory                                       |                                         | Power                                 |                           |
| Internal memory *                            | 24 GB                                   | AC adapter power                      | 200 W                     |
| Internal memory type                         | DDR5-SDRAM                              | AC adapter frequency                  | 50 - 60 Hz                |
| Memory form factor                           | On-board + SO-DIMM                      | AC adapter input voltage              | 100 - 240 V               |
| Memory slots                                 | 1x SO-DIMM                              | AC adapter output current             | 10 A                      |
| Maximum internal memory *                    | 24 GB                                   | AC adapter output voltage             | 20 V                      |
| Storage                                      |                                         | DC-in jack                            | ✓                         |
| Total storage capacity *                     | 1 TB                                    | USB Power Delivery (USB PD)           | ✓                         |
| Storage media *                              | SSD                                     | Security                              |                           |
| Total SSDs capacity                          | 1 TB                                    | Face recognition                      | ✓                         |
| Number of SSDs installed                     | 1                                       | Windows Hello                         | ✓                         |
| SSD capacity                                 | 1 TB                                    | Trusted Platform Module (TPM)         | ✓                         |
| SSD interface                                | PCI Express 4.0                         | Password protection                   | ✓                         |
| NVMe                                         | ✓                                       | Password protection type              | BIOS, User                |
| SSD form factor                              | M.2                                     | Certificates                          |                           |
| Optical drive type *                         | ✗                                       | Compliance certificates               | RoHS, REACH               |
| Card reader integrated                       | ✓                                       | Sustainability                        |                           |
| Compatible memory cards                      | SD                                      | Sustainability compliance             | ✓                         |
| Graphics                                     |                                         | Sustainability certificates           | EPEAT Silver, ENERGY STAR |
| Discrete GPU manufacturer                    | NVIDIA                                  | Weight & dimensions                   |                           |
| Discrete graphics card model *               | NVIDIA GeForce RTX 4050                 | Width                                 | 355.7 mm                  |
|                                              |                                         | Depth                                 | 235.3 mm                  |
|                                              |                                         | Height                                | 19.9 mm                   |
|                                              |                                         | Weight *                              | 1.8 kg                    |



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Publication date: 04-FEB-2025. Prints or copies of Information are only valid on the printed Publication date