# ASUS X509MA-BR310 Intel® Celeron® N N4020 Laptop 39,6 cm (15.6") Full HD 4 Giga Bites DDR4-SDRAM 256 Giga Bites SSD Wi-Fi 5 (802.11ac) Argint

**Marcă :** ASUS

**Codul produsului:** 90NB0Q31-M06250

**Nume produs :** X509MA-BR310

ASUS X509MA-BR310. Tipul de produs: Laptop, Factorul de formă: Clapetă. Familia de procesoare: Intel® Celeron® N, Procesor: N4020, Frecvență procesor: 1,1 GHz. Diagonala afișajului: 39,6 cm (15.6"), Tip HD: Full HD, Rezoluție de afișare: 1920 x 1080 Pixel. Memorie internă: 4 Giga Bites, Tip de memorie internă: DDR4-SDRAM. Capacitate totală de stocare: 256 Giga Bites, Suport media de stocare: SSD. Model adaptor grafic la-bord: Intel® UHD Graphics 600. Culoarea produsului: Argint. Greutate: 1,8 kilograme

| Design | |
|---|---|
| Product type * | Laptop |
| Product colour * | Silver |
| Form factor * | Clamshell |

| Display | |
|---|---|
| Display diagonal * | 39.6 cm (15.6") |
| Display resolution * | 1920 x 1080 pixels |
| Touchscreen * | ✗ |
| HD type | Full HD |
| LED backlight | ✓ |
| Native aspect ratio | 16:9 |
| Display surface | Matt |

| Processor | |
|---|---|
| Processor manufacturer * | Intel |
| Processor family * | Intel® Celeron® N |
| Processor model * | N4020 |
| Processor cores | 2 |
| Processor threads | 2 |
| Processor boost frequency | 2.8 GHz |
| Processor frequency * | 1.1 GHz |
| Processor cache | 4 MB |
| Processor socket | BGA 1090 |
| Processor lithography | 14 nm |
| Processor operating modes | 64-bit |
| Processor codename | Gemini Lake Refresh |
| Thermal Design Power (TDP) | 6 W |
| Tjunction | 105 °C |
| Maximum number of PCI Express lanes | 6 |
| PCI Express slots version | 2.0 |
| PCI Express configurations | 1x4+1x2, 2x1+1x2+1x2, 4x1 |

| Memory | |
|---|---|
| Internal memory * | 4 GB |
| Internal memory type | DDR4-SDRAM |
| Memory slots | 1x SO-DIMM |

| Ports & interfaces | |
|---|---|
| USB 2.0 ports quantity * | 2 |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 1 |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity * | 1 |
| HDMI ports quantity * | 1 |
| Combo headphone/mic port | ✓ |

| Performance | |
|---|---|
| Repairability index | 6.6 |

| Keyboard | |
|---|---|
| Pointing device | Touchpad |
| Numeric keypad * | ✓ |

| Software | |
|---|---|
| Operating system installed * | ✗ |

| Processor special features | |
|---|---|
| Intel® Anti-Theft Technology (Intel® AT) | ✗ |
| Intel® Smart Response Technology | ✗ |
| Intel® Identity Protection Technology (Intel® IPT) | ✓ |
| Intel® Hyper Threading Technology (Intel® HT Technology) | ✗ |
| Intel® Turbo Boost Technology | ✗ |
| Enhanced Intel SpeedStep Technology | ✓ |
| Intel® Quick Sync Video Technology | ✓ |
| Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Intel® Secure Key | ✓ |
| Intel® OS Guard | ✓ |
| Intel Software Guard Extensions (Intel SGX) | ✓ |

| Memory | |
|---|---|
| Maximum internal memory * | 8 GB |

| Storage | |
|---|---|
| Total storage capacity * | 256 GB |
| Storage media * | SSD |
| Total SSDs capacity | 256 GB |
| Number of SSDs installed | 1 |
| SSD capacity | 256 GB |
| SSD interface | SATA |
| Optical drive type * | ✗ |
| Card reader integrated | ✓ |
| Compatible memory cards | MicroSD (TransFlash) |

| Graphics | |
|---|---|
| Discrete graphics card model * | Not available |
| On-board graphics card * | ✓ |
| On-board GPU manufacturer | Intel |
| Discrete graphics card * | ✗ |
| On-board graphics card model * | Intel® UHD Graphics 600 |
| On-board graphics card base frequency | 200 MHz |
| On-board graphics card burst frequency | 650 MHz |
| Maximum on-board graphics card memory | 8 GB |
| Number of execution units | 12 |
| On-board graphics card DirectX version | 12.0 |
| On-board graphics card OpenGL version | 4.4 |
| On-board graphics card ID | 0x3185 |

| Audio | |
|---|---|
| Audio system | SonicMaster |
| Built-in microphone | ✓ |

| Camera | |
|---|---|
| Front camera | ✓ |

| Network | |
|---|---|
| Top Wi-Fi standard * | Wi-Fi 5 (802.11ac) |
| Wi-Fi standards | 802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac) |
| Mobile network connection * | ✗ |
| Ethernet LAN | ✗ |
| Bluetooth | ✓ |
| Bluetooth version | 4.1 |

| Processor special features | |
|---|---|
| Intel 64 | ✓ |
| Execute Disable Bit | ✓ |
| Idle States | ✓ |
| Thermal Monitoring Technologies | ✓ |
| Processor package size | 25 x 24 mm |
| Supported instruction sets | SSE4.2 |
| CPU configuration (max) | 1 |
| Embedded options available | ✗ |
| UART | ✓ |
| Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Intel Virtualization Technology (VT-x) | ✓ |
| Processor ARK ID | 197310 |

| Battery | |
|---|---|
| Number of battery cells | 2 |
| Battery capacity * | 32 Wh |

| Power | |
|---|---|
| AC adapter power | 33 W |
| AC adapter frequency | 50/60 Hz |
| AC adapter input voltage | 100 - 240 V |
| AC adapter output current | 1.75 A |
| AC adapter output voltage | 19 V |

| Security | |
|---|---|
| Password protection | ✓ |
| Password protection type | BIOS, User |

| Certificates | |
|---|---|
| Certification | UL, CE Marking Compliance, FCC Compliance, BSMI, Australia C-TICK / NZ A-Tick Compliance, CCC, GOST-R, CB, Energy Star |

| Sustainability | |
|---|---|
| Sustainability certificates | ENERGY STAR |

| Weight & dimensions | |
|---|---|
| Width | 360.2 mm |
| Depth | 234.9 mm |
| Height | 22.9 mm |
| Weight * | 1.8 kg |

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