# ASUS Zenbook 13 UX331UAL-EG053T Intel® Core™ i5 i5-8250U 🔲🔲🔲🔲🔲🔲🔲 33,8 cm (13.3") Full HD 8 GB LPDDR3-SDRAM 256 GB SSD Wi-Fi 5 (802.11ac) Windows 10 Home 🔲🔲🔲🔲🔲🔲🔲🔲 🔲🔲🔲🔲🔲

**Brand :** ASUS

**Product name :** UX331UAL-EG053T

**Product family:** Zenbook

**Product code:** 90NB0HT4-M03440

## Design

| | |
|---|---|
| Product type * | Laptop |
| Product colour * | Pink gold |
| Form factor * | Clamshell |

## Display

| | |
|---|---|
| Display diagonal * | 33.8 cm (13.3") |
| Display resolution * | 1920 x 1080 pixels |
| HD type | Full HD |
| LED backlight | ✔ |
| Native aspect ratio | 16:9 |
| Display surface | Matt |

## Processor

| | |
|---|---|
| Processor manufacturer * | Intel |
| Processor family * | Intel® Core™ i5 |
| Processor generation | 8th gen Intel® Core™ i5 |
| Processor model * | i5-8250U |
| Processor cores | 4 |
| Processor threads | 8 |
| Processor boost frequency | 3.4 GHz |
| Processor frequency * | 1.6 GHz |
| System bus rate | 4 GT/s |
| Processor cache | 6 MB |
| Processor cache type | Smart Cache |
| Processor socket | BGA 1356 |
| Processor lithography | 14 nm |
| Processor operating modes | 64-bit |
| Processor codename | Kaby Lake R |
| Bus type | OPI |
| Stepping | Y0 |
| Thermal Design Power (TDP) | 15 W |
| Configurable TDP-up frequency | 1.8 GHz |
| Configurable TDP-up | 25 W |
| Configurable TDP-down | 10 W |
| Configurable TDP-down frequency | 0.8 GHz |
| Tjunction | 100 °C |

## Ports & interfaces

| | |
|---|---|
| Combo headphone/mic port | ✔ |
| ExpressCard slot | ✘ |

## Keyboard

| | |
|---|---|
| Pointing device | Touchpad |
| Numeric keypad * | ✘ |
| Windows keys | ✔ |

## Software

| | |
|---|---|
| Operating system installed * | Windows 10 Home |

## Processor special features

| | |
|---|---|
| Intel® My WiFi Technology (Intel® MWT) | ✔ |
| Intel® Smart Response Technology | ✔ |
| Intel® Identity Protection Technology (Intel® IPT) | ✔ |
| Intel® Hyper Threading Technology (Intel® HT Technology) | ✔ |
| Intel® Turbo Boost Technology | 2.0 |
| Enhanced Intel SpeedStep Technology | ✔ |
| Intel® Clear Video HD Technology (Intel® CVT HD) | ✔ |
| Intel Clear Video Technology | ✔ |
| Intel® InTru™ 3D Technology | ✔ |
| Intel® Quick Sync Video Technology | ✔ |
| Intel Flex Memory Access | ✔ |
| Intel® AES New Instructions (Intel® AES-NI) | ✔ |
| Intel Trusted Execution Technology | ✘ |
| Intel Enhanced Halt State | ✔ |
| Intel VT-x with Extended Page Tables (EPT) | ✔ |
| Intel® Secure Key | ✔ |
| Intel TSX-NI | ✘ |

## Processor

| | |
|---|---|
| Maximum number of PCI Express lanes | 12 |
| PCI Express slots version | 3.0 |
| PCI Express configurations | 1x2+2x1, 1x4, 2x2, 4x1 |
| ECC supported by processor | ✘ |

## Memory

| | |
|---|---|
| Internal memory * | 8 GB |
| Internal memory type | LPDDR3-SDRAM |
| Memory clock speed | 2133 MHz |
| Memory form factor | On-board |
| 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 |
| SSD form factor | M.2 |
| Optical drive type * | ✘ |
| Card reader integrated | ✔ |
| Compatible memory cards | MicroSD (TransFlash) |

## Graphics

| | |
|---|---|
| Discrete graphics card model * | Not available |
| On-board graphics card * | ✔ |
| Discrete graphics card * | ✘ |
| On-board graphics card family | Intel® UHD Graphics |
| On-board graphics card model * | Intel® UHD Graphics 620 |
| On-board graphics card base frequency | 300 MHz |
| On-board graphics card dynamic frequency (max) | 1100 MHz |
| Maximum on-board graphics card memory | 32 GB |
| On-board graphics card DirectX version | 12.0 |
| On-board graphics card OpenGL version | 4.4 |
| On-board graphics card ID | 0x5917 |

## Audio

| | |
|---|---|
| Audio system | SonicMaster |
| Number of built-in speakers | 2 |
| Speaker power | 1 W |
| Built-in microphone | ✔ |

## Camera

| | |
|---|---|
| Front camera | ✔ |

## Network

| | |
|---|---|
| Wi-Fi | ✔ |
| Top Wi-Fi standard * | Wi-Fi 5 (802.11ac) |
| Wi-Fi standards | 802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n) |
| Antenna type | 2x2 |
| Ethernet LAN | ✘ |
| Bluetooth | ✔ |
| Bluetooth version | 4.2 |

## Ports & interfaces

| | |
|---|---|
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 2 |

## Processor special features

| | |
|---|---|
| Intel Stable Image Platform Program (SIPP) | ✘ |
| Intel® OS Guard | ✔ |
| Intel Software Guard Extensions (Intel SGX) | ✔ |
| Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID) | ✔ |
| Intel 64 | ✔ |
| Execute Disable Bit | ✔ |
| Idle States | ✔ |
| Thermal Monitoring Technologies | ✔ |
| Processor package size | 42 X 24 mm |
| Supported instruction sets | AVX 2.0, SSE4.1, SSE4.2 |
| Processor code | SR3LA |
| CPU configuration (max) | 1 |
| Embedded options available | ✘ |
| Intel Virtualization Technology for Directed I/O (VT-d) | ✔ |
| Intel Identity Protection Technology version | 1.00 |
| Intel Smart Response Technology version | 1.00 |
| Intel Stable Image Platform Program (SIPP) version | 0.00 |
| Intel Secure Key Technology version | 1.00 |
| Intel TSX-NI version | 0.00 |
| Intel Virtualization Technology (VT-x) | ✔ |
| Processor ARK ID | 124967 |
| Conflict-Free processor | ✔ |

## Battery

| | |
|---|---|
| Battery technology | Lithium Polymer (LiPo) |
| Number of battery cells | 3 |
| Battery capacity * | 50 Wh |

## Power

| | |
|---|---|
| AC adapter power | 45 W |
| AC adapter frequency | 50 - 60 Hz |
| AC adapter input voltage | 100 - 240 V |
| AC adapter output voltage | 19 V |

## Security

| | |
|---|---|
| Cable lock slot | ✔ |
| Trusted Platform Module (TPM) | ✔ |
| Password protection | ✔ |
| Password protection type | BIOS, HDD, User |

## Certificates

| | |
|---|---|
| Compliance certificates | RoHS |
| Certification | UL, TUV, MIC, CE Marking Compliance, FCC Compliance, BSMI, Australia C-TICK / NZ A-Tick Compliance, CCC, CB, EPEAT, EU Flower, Energy star, WEEE, Erp 2013, RoHS |

## Sustainability

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

## Weight & dimensions

| | |
|---|---|
| Width | 310 mm |
| Depth | 216 mm |
| Height | 13.9 mm |
| Weight * | 985 g |

**Ports & interfaces**

| | |
|---|---|
| HDMI ports quantity * | 1 |
| HDMI version | 1.4 |
| Microphone in | ✘ |