

## ASUS TUF Gaming FX610UM-TU044W AMD Ryzen™ 7 253 Laptop 40.6 cm (16") WUXGA 16 GB DDR5-SDRAM 512 GB SSD NVIDIA GeForce RTX 5060 Wi-Fi 6 (802.11ax) Windows 11 Home Black AZERTY Belgian



**Brand :** ASUS

**Product family:** TUF Gaming

**Product code:** 90NR0R41-M00440

**Product name :** FX610UM-TU044W

- Windows 11 Home 64-bit  
 - AMD Ryzen 7 253 (3.6GHz)  
 - 16" WUXGA 1920 x 1200 IPS-Level, NVIDIA GeForce RTX 5060 (8GB GDDR7)  
 - 16GB (5600MHz) DDR5-SDRAM (1 x 16) & 512GB SSD  
 AMD Ryzen 7 253 (3.6GHz), 16GB DDR5-SDRAM, 512GB SSD, 16" WUXGA 1920 x 1200 IPS-Level, AMD Radeon 780M, NVIDIA GeForce RTX 5060 (8GB GDDR7), LAN, WLAN, Webcam, Windows 11 Home 64-bit

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### Core Power, Total Command.

The TUF Gaming 16 delivers the essential specs you need for smooth gaming on Windows 11. Featuring up to an Intel® Core™ i7 processor 14650HX and up to an NVIDIA® GeForce RTX™ 5070 Laptop GPU, the TUF Gaming 16 handles popular esports titles and daily productivity with ease.

| Design                      |                      | Network                                           |                    |
|-----------------------------|----------------------|---------------------------------------------------|--------------------|
| Colour name                 | Off Black            | Top Wi-Fi standard *                              | Wi-Fi 6 (802.11ax) |
| Product type *              | Laptop               | Wi-Fi standards                                   | Wi-Fi 6 (802.11ax) |
| Product colour *            | Black                | Mobile network connection *                       | ✗                  |
| Form factor *               | Clamshell            | Antenna type                                      | 2x2                |
| Housing material            | Plastic              | Ethernet LAN                                      | ✓                  |
| Display back cover material | Plastic              | Ethernet LAN data rates                           | 1000,10,100 Mbit/s |
| Market positioning          | Gaming               | Bluetooth                                         | ✓                  |
| Introduction year           | 2026                 | Bluetooth version                                 | 5.4                |
| Display                     |                      | Ports & interfaces                                |                    |
| Display diagonal *          | 40.6 cm (16")        | USB 2.0 ports quantity *                          | 1                  |
| Display resolution *        | 1920 x 1200 pixels   | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 2                  |
| Touchscreen *               | ✗                    | USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity   | 1                  |
| HD type                     | WUXGA                | Ethernet LAN (RJ-45) ports                        | 1                  |
| Panel type                  | IPS-Level            | HDMI ports quantity *                             | 1                  |
| LED backlight               | ✓                    | HDMI version                                      | 2.1                |
| Native aspect ratio         | 16:10                | Combo headphone/mic port                          | ✓                  |
| Anti-glare screen           | ✓                    | USB Type-C DisplayPort Alternate Mode             | ✓                  |
| Display brightness          | 300 cd/m²            |                                                   |                    |
| RGB colour space            | sRGB                 |                                                   |                    |
| Colour gamut                | 100%                 |                                                   |                    |
| Maximum refresh rate        | 144 Hz               |                                                   |                    |
| Contrast ratio (typical)    | 1200:1               |                                                   |                    |
| Processor                   |                      | Keyboard                                          |                    |
| Processor manufacturer *    | AMD                  | Pointing device                                   | Touchpad           |
| Processor family *          | AMD Ryzen™ 7         | Numeric keypad *                                  | ✓                  |
| Processor generation        | AMD Ryzen 200 Series | Keyboard backlit                                  | ✓                  |
| Processor model *           | 253                  | Keyboard backlit colour                           | RGB                |
| Processor cores             | 8                    | Keyboard backlit zone                             | 1-zone RGB         |
| Processor threads           | 16                   | Keyboard layout                                   | AZERTY             |
| Processor boost frequency   | 4.9 GHz              | Keyboard language                                 | Belgian            |
| Processor frequency *       | 3.6 GHz              | Copilot key                                       | ✓                  |

| Processor                      |                         | Software                                   |                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------|-------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor cache type           | L2 & L3                 | Operating system architecture              | 64-bit                                                                                                                                                                                                                                                                                                                                           |
| L3 cache                       | 16 MB                   | Trial software                             | 1-month trial for new Microsoft 365 customers                                                                                                                                                                                                                                                                                                    |
| L2 cache                       | 8 MB                    | Operating system installed *               | Windows 11 Home                                                                                                                                                                                                                                                                                                                                  |
| Memory                         |                         | Bundled software                           | 3-Month Google AI Pro Subscription                                                                                                                                                                                                                                                                                                               |
| Internal memory *              | 16 GB                   |                                            | 6-Month Dropbox 500GB                                                                                                                                                                                                                                                                                                                            |
| Internal memory type           | DDR5-SDRAM              |                                            | Subscription 1-Year ASUS Secure Auto-Backup 200GB Subscription                                                                                                                                                                                                                                                                                   |
| Memory clock speed             | 5600 MHz                |                                            | *Available in eligible markets only                                                                                                                                                                                                                                                                                                              |
| Memory form factor             | SO-DIMM                 |                                            | Eligibility varies by region, device, and time. Terms and conditions apply. See promotion pages for details. XBOX Game Pass Premium_2 months (*Terms and exclusions apply. Offer only available in eligible markets for XBOX Game Pass Premium. Eligible markets are determined at activation. Game catalog varies by region, device, and time.) |
| Memory layout (slots x size)   | 1 x 16 GB               |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| Memory slots                   | 2x SO-DIMM              |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| Maximum internal memory *      | 64 GB                   |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| Memory channels                | Dual-channel            |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| Storage                        |                         |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| Total storage capacity *       | 512 GB                  |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| Storage media *                | SSD                     |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| Total SSDs capacity            | 512 GB                  |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| Number of SSDs installed       | 1                       |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| SSD capacity                   | 512 GB                  |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| SSD interface                  | PCI Express 4.0         |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| NVMe                           | ✓                       |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| SSD form factor                | M.2                     |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| Optical drive type *           | ✗                       |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| Graphics                       |                         | Battery                                    |                                                                                                                                                                                                                                                                                                                                                  |
| Discrete GPU manufacturer      | NVIDIA                  | Battery technology                         | Lithium-Ion (Li-Ion)                                                                                                                                                                                                                                                                                                                             |
| Discrete graphics card model * | NVIDIA GeForce RTX 5060 | Number of battery cells                    | 4                                                                                                                                                                                                                                                                                                                                                |
| Discrete graphics card memory  | 8 GB                    | Battery capacity *                         | 63 Wh                                                                                                                                                                                                                                                                                                                                            |
| Discrete graphics memory type  | GDDR7                   | Fast charging                              | ✓                                                                                                                                                                                                                                                                                                                                                |
| On-board graphics card *       | ✓                       | Fast charging time (50%)                   | 30 min                                                                                                                                                                                                                                                                                                                                           |
| On-board GPU manufacturer      | AMD                     |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| Discrete graphics card *       | ✓                       |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| On-board graphics card model * | AMD Radeon 780M         |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| Total Graphics Power (TGP)     | 85 W                    |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| NVIDIA G-SYNC                  | ✓                       |                                            |                                                                                                                                                                                                                                                                                                                                                  |
| Audio                          |                         | Power                                      |                                                                                                                                                                                                                                                                                                                                                  |
| Number of built-in speakers    | 2                       | AC adapter power                           | 150 W                                                                                                                                                                                                                                                                                                                                            |
| Built-in microphone            | ✓                       | AC adapter frequency                       | 50 - 60 Hz                                                                                                                                                                                                                                                                                                                                       |
|                                |                         | AC adapter input voltage                   | 100 - 240 V                                                                                                                                                                                                                                                                                                                                      |
|                                |                         | AC adapter output current                  | 7.5 A                                                                                                                                                                                                                                                                                                                                            |
|                                |                         | AC adapter output voltage                  | 20 V                                                                                                                                                                                                                                                                                                                                             |
|                                |                         | USB Type-C charging port *                 | ✓                                                                                                                                                                                                                                                                                                                                                |
|                                |                         | USB Type-C required charging power (min) * | 45 W                                                                                                                                                                                                                                                                                                                                             |
|                                |                         | USB Type-C required charging power (max) * | 100 W                                                                                                                                                                                                                                                                                                                                            |
|                                |                         | USB Power Delivery (USB PD)                | ✓                                                                                                                                                                                                                                                                                                                                                |
| Camera                         |                         | Security                                   |                                                                                                                                                                                                                                                                                                                                                  |
| Front camera                   | ✓                       | Trusted Platform Module (TPM)              | ✓                                                                                                                                                                                                                                                                                                                                                |
| Front camera resolution        | 1280 x 720 pixels       | Password protection                        | ✓                                                                                                                                                                                                                                                                                                                                                |
| Front camera HD type           | HD                      | Password protection type                   | BIOS, User                                                                                                                                                                                                                                                                                                                                       |
|                                |                         | Weight & dimensions                        |                                                                                                                                                                                                                                                                                                                                                  |
|                                |                         | Width                                      | 357 mm                                                                                                                                                                                                                                                                                                                                           |
|                                |                         | Depth                                      | 259 mm                                                                                                                                                                                                                                                                                                                                           |
|                                |                         | Height (front)                             | 1.94 cm                                                                                                                                                                                                                                                                                                                                          |
|                                |                         | Height (rear)                              | 2.69 cm                                                                                                                                                                                                                                                                                                                                          |
|                                |                         | Weight *                                   | 2.2 kg                                                                                                                                                                                                                                                                                                                                           |
|                                |                         | Packaging content                          |                                                                                                                                                                                                                                                                                                                                                  |
|                                |                         | AC adapter included *                      | ✓                                                                                                                                                                                                                                                                                                                                                |



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### Catalog Object Cloud



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