

**ASUS ROG Strix G502VM-FY231T laptop Intel® Core™ i7
i7-7700HQ 39,6 cm (15.6") Full HD 8 GB DDR4-SDRAM 1,13 TB
HDD+SSD NVIDIA® GeForce® GTX 1060 Wi-Fi 5 (802.11ac)
Windows 10 Home Black**



Brand : ASUS

Product family: ROG

Product code: G502VM-FY231T

Product name : G502VM-FY231T

Intel Core i7-7700HQ, 15.6" FHD 1920x1080, 8GB DDR4, 1TB HDD + 128GB SSD, NVIDIA GeForce GTX 1060, 802.11 ac, Windows 10 Home 64-Bit

ASUS ROG Strix G502VM-FY231T. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-7700HQ, Processor frequency: 2,8 GHz. Display diagonal: 39,6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1,13 TB, Storage media: HDD+SSD. On-board graphics card model: Intel® HD Graphics 630. Operating system installed: Windows 10 Home. Product colour: Black

| Design | | Keyboard | |
|-------------------------------------|----------------------------------|--|-----------------|
| Product type * | Laptop | Pointing device | Touchpad |
| Product colour * | Black | Numeric keypad * | ✓ |
| Form factor * | Clamshell | Keyboard backlight | ✓ |
| Market positioning | Gaming | Full-size keyboard | ✓ |
| Display | | Windows keys | ✓ |
| Display diagonal * | 39,6 cm (15.6") | Software | |
| Display resolution * | 1920 x 1080 pixels | Operating system architecture | 64-bit |
| Touchscreen * | ✗ | Operating system installed * | Windows 10 Home |
| HD type | Full HD | Processor special features | |
| LED backlight | ✓ | Intel® Wireless Display (Intel® WiDi) | ✓ |
| Native aspect ratio | 16:9 | Intel® My WiFi Technology (Intel® MWT) | ✓ |
| Display surface | Matt | Intel® Smart Response Technology | ✓ |
| Processor | | Intel® Identity Protection Technology (Intel® IPT) | ✓ |
| Processor manufacturer * | Intel | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ |
| Processor family * | Intel® Core™ i7 | Intel® Turbo Boost Technology | 2.0 |
| Processor generation | 7th gen Intel® Core™ i7 | Enhanced Intel SpeedStep Technology | ✓ |
| Processor model * | i7-7700HQ | Intel® Clear Video HD Technology (Intel® CVT HD) | ✓ |
| Processor cores | 4 | Intel Clear Video Technology | ✓ |
| Processor threads | 8 | Intel® InTru™ 3D Technology | ✓ |
| Processor boost frequency | 3,8 GHz | Intel® Quick Sync Video Technology | ✓ |
| Processor frequency * | 2,8 GHz | Intel Flex Memory Access | ✓ |
| System bus rate | 8 GT/s | Intel® Smart Cache | ✓ |
| Processor cache | 6 MB | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Processor cache type | Smart Cache | Intel Trusted Execution Technology | ✗ |
| Processor lithography | 14 nm | Intel Enhanced Halt State | ✓ |
| Processor operating modes | 64-bit | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Processor series | Intel Core i7-7700 Mobile Series | | |
| Processor codename | Kaby Lake | | |
| Bus type | DMI3 | | |
| Thermal Design Power (TDP) | 45 W | | |
| Configurable TDP-down | 35 W | | |
| Tjunction | 100 °C | | |
| Maximum number of PCI Express lanes | 16 | | |

| Processor | | Processor special features | |
|---|--|---|-------------------------|
| PCI Express slots version | 3.0 | Intel® Secure Key | ✓ |
| PCI Express configurations | 1x16, 1x8, 2x4, 2x8 | Intel TSX-NI | ✗ |
| ECC supported by processor | ✗ | Intel Stable Image Platform Program (SIPP) | ✗ |
| Memory | | Intel® OS Guard | ✓ |
| Internal memory * | 8 GB | Intel Software Guard Extensions (Intel SGX) | ✓ |
| Internal memory type | DDR4-SDRAM | Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID) | ✓ |
| Memory clock speed | 2133 MHz | Intel 64 | ✓ |
| Memory form factor | SO-DIMM | Execute Disable Bit | ✓ |
| Memory layout (slots x size) | 1 x 16 GB | Idle States | ✓ |
| Memory slots | 2x SO-DIMM | Thermal Monitoring Technologies | ✓ |
| Maximum internal memory * | 24 GB | Processor package size | 42 x 28 mm |
| Storage | | Supported instruction sets | AVX 2.0, SSE4.1, SSE4.2 |
| Total storage capacity * | 1,13 TB | CPU configuration (max) | 1 |
| Storage media * | HDD+SSD | Embedded options available | ✗ |
| Number of HDDs installed | 1 | Graphics & IMC lithography | 14 nm |
| HDD capacity | 1 TB | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| HDD interface | SATA | Intel Identity Protection Technology version | 1,00 |
| Number of SSDs installed | 1 | Intel Smart Response Technology version | 1,00 |
| SSD capacity | 128 GB | Intel Stable Image Platform Program (SIPP) version | 0,00 |
| Optical drive type * | ✗ | Intel Secure Key Technology version | 1,00 |
| Card reader integrated | ✓ | Intel Small Business Advantage (SBA) version | 1,00 |
| Compatible memory cards | SD, SDHC, SDXC | Intel TSX-NI version | 0,00 |
| Graphics | | Intel Virtualization Technology (VT-x) | ✓ |
| Discrete graphics card model * | NVIDIA® GeForce® GTX 1060 | Processor ARK ID | 97185 |
| On-board graphics card * | ✓ | Conflict-Free processor | ✓ |
| Discrete graphics card * | ✓ | Battery | |
| On-board graphics card model * | Intel® HD Graphics 630 | Number of battery cells | 4 |
| On-board graphics card base frequency | 350 MHz | Power | |
| On-board graphics card dynamic frequency (max) | 1100 MHz | AC adapter power | 180 W |
| Maximum on-board graphics card memory | 64 GB | AC adapter frequency | 50 - 60 Hz |
| On-board graphics card DirectX version | 12.0 | AC adapter input voltage | 100 - 240 V |
| On-board graphics card OpenGL version | 4.4 | AC adapter output voltage | 19 V |
| On-board graphics card ID | 0x591B | DC-in jack | ✓ |
| Audio | | Security | |
| Audio system | SonicMaster | Cable lock slot | ✓ |
| Built-in microphone | ✓ | Cable lock slot type | Kensington |
| Camera | | Password protection | ✓ |
| Front camera | ✓ | Weight & dimensions | |
| Network | | Width | 390 mm |
| Wi-Fi | ✓ | Depth | 266 mm |
| Top Wi-Fi standard * | Wi-Fi 5 (802.11ac) | Height | 23,5 mm |
| Wi-Fi standards | 802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n) | Weight * | 2,4 kg |
| Ethernet LAN | ✓ | Packaging content | |
| Ethernet LAN data rates | 10,100,1000 Mbit/s | AC adapter included * | ✓ |
| Bluetooth | ✓ | Manual | ✓ |
| Bluetooth version | 4.0 | Power cord included | ✓ |
| Ports & interfaces | | Other features | |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 3 | Maximum internal memory (64-bit) | 24 GB |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity | 1 | | |
| Ethernet LAN (RJ-45) ports | 1 | | |

| Ports & interfaces | |
|----------------------------|--------------|
| HDMI ports quantity * | 1 |
| Mini DisplayPorts quantity | 1 |
| DVI port | × |
| Combo headphone/mic port | ✓ |
| Docking connector | ✓ |
| Performance | |
| Motherboard chipset | Intel® HM170 |



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