



**MSI Gaming GE72VR 6RF(Apache Pro)-209XFR Intel® Core™ i7  
i7-6700HQ Laptop 43,9 cm (17.3") Full HD 8 GB DDR4-SDRAM 1,13  
TB HDD+SSD NVIDIA® GeForce® GTX 1060 Wi-Fi 5 (802.11ac)  
Gratis DOS Zwart**



**Merk :** MSI

**Productfamilie:** Gaming

**Artikelcode:** GE72VR  
6RF-209XFR

**Productnaam :** GE72VR  
6RF(Apache Pro)-209XFR



MSI Gaming GE72VR 6RF(Apache Pro)-209XFR. Type product: Laptop, Vormfactor: Clamshell.  
Processorfamilie: Intel® Core™ i7, Processormodel: i7-6700HQ, Frequentie van processor: 2,6 GHz.  
Beeldscherm diagonaal: 43,9 cm (17.3"), HD type: Full HD, Resolutie: 1920 x 1080 Pixels. Intern  
geheugen: 8 GB, Intern geheugentype: DDR4-SDRAM. Totale opslagcapaciteit: 1,13 TB, Opslagmedia:  
HDD+SSD, Soort optische drive: DVD Super Multi. Inclusief besturingssysteem: Gratis DOS. Kleur van het  
product: Zwart

| Design                                    |                                   | Poorten & interfaces                                        |              |
|-------------------------------------------|-----------------------------------|-------------------------------------------------------------|--------------|
| Type product *                            | Laptop                            | HDMI versie                                                 | 1.4          |
| Kleur van het product *                   | Zwart                             | Mini DisplayPort kwantiteit                                 | 1            |
| Vormfactor *                              | Clamshell                         | DVI-poort                                                   | ✗            |
| Markt positionering                       | Gamen                             | Hoofdtelefoonuitgangen                                      | 1            |
| Beeldscherm                               |                                   | Microfoon, line-in ingang                                   | ✓            |
| Beeldscherm diagonaal *                   | 43,9 cm (17.3")                   | Basisstationaansluiting                                     | ✗            |
| Resolutie *                               | 1920 x 1080 Pixels                | Prestatie                                                   |              |
| Touchscreen *                             | ✗                                 | Klaar voor Virtual Reality (VR)                             | ✓            |
| HD type                                   | Full HD                           | Chipset moederbord                                          | Intel® HM170 |
| LED backlight                             | ✓                                 | Toetsenbord                                                 |              |
| Oorspronkelijke beeldverhouding           | 16:9                              | Aanwijsapparaat                                             | Touchpad     |
| Dubbele scherm                            | ✗                                 | Numeriek toetsenblok *                                      | ✓            |
| Processor                                 |                                   | Keyboard met<br>achtergrondverlichting                      | ✓            |
| Processorfabrikant *                      | Intel                             | Windows-toetsen                                             | ✓            |
| Processorfamilie *                        | Intel® Core™ i7                   | Software                                                    |              |
| Processorgeneratie                        | Zesde generatie Intel® Core™ i7   | Inclusief besturingssysteem *                               | Gratis DOS   |
| Processormodel *                          | i7-6700HQ                         | Processor speciale functies                                 |              |
| Aantal processorkernen                    | 4                                 | Intel® Wireless Display (Intel®<br>WiDi)                    | ✓            |
| Processor aantal threads                  | 8                                 | Intel® My WiFi Technology (Intel®<br>MWT)                   | ✓            |
| Maximale turbofrequentie van<br>processor | 3,5 GHz                           | Intel® Smart Response Technology                            | ✓            |
| Frequentie van processor *                | 2,6 GHz                           | Intel® Identity Protection<br>Technology (Intel® IPT)       | ✓            |
| Systeembus                                | 8 GT/s                            | Intel® Hyper Threading Technology<br>(Intel® HT Technology) | ✓            |
| Processor cache                           | 6 MB                              | Intel® Turbo Boost Technology                               | 2.0          |
| Processor cache type                      | Smart Cache                       | Intel® Small Business Advantage<br>(Intel® SBA)             | ✓            |
| Processor socket                          | BGA 1440                          | Enhanced Intel SpeedStep<br>Technology                      | ✓            |
| Processor lithografie                     | 14 nm                             | Intel® Clear Video HD Technology<br>(Intel® CVT HD)         | ✓            |
| Processor operating modes                 | 64-bit                            |                                                             |              |
| Processorserie                            | Intel® Core i7-6700 Mobile Series |                                                             |              |
| Codenaam processor                        | Skylake                           |                                                             |              |
| Bus type                                  | DMI3                              |                                                             |              |
| Stepping                                  | R0                                |                                                             |              |
| Thermal Design Power (TDP)                | 45 W                              |                                                             |              |
| Configureerbare TDP-down                  | 35 W                              |                                                             |              |

| Processor                                              |                           | Processor speciale functies                                                    |                         |
|--------------------------------------------------------|---------------------------|--------------------------------------------------------------------------------|-------------------------|
| Tjunction                                              | 100 °C                    | Intel® Clear Video-technologie                                                 | ✓                       |
| Maximaal aantal PCI Express-lijnen                     | 16                        | Intel® InTru™ 3D Technology                                                    | ✓                       |
| PCI Express slots versie                               | 3.0                       | Intel® Insider™                                                                | ✓                       |
| PCI Express configuraties                              | 1x16, 2x8, 1x8+2x4        | Intel® Quick Sync Video Technology                                             | ✓                       |
| ECC ondersteund door processor                         | ✗                         | Intel® Flex Memory Access                                                      | ✓                       |
| Geheugen                                               |                           | Intel® AES New Instructions (Intel® AES-NI)                                    | ✓                       |
| Intern geheugen *                                      | 8 GB                      | Intel® Trusted Execution Technology                                            | ✗                       |
| Intern geheugentype                                    | DDR4-SDRAM                | Intel® Enhanced Halt State                                                     | ✓                       |
| Geheugen form factor                                   | SO-DIMM                   | Intel® VT-x with Extended Page Tables (EPT)                                    | ✓                       |
| Geheugenslots                                          | 2x SO-DIMM                | Intel® Secure Key                                                              | ✓                       |
| Maximum intern geheugen *                              | 32 GB                     | Intel® TSX-NI                                                                  | ✗                       |
| Opslagmedia                                            |                           | Intel® Stable Image Platform Program (SIPP)                                    | ✗                       |
| Totale opslagcapaciteit *                              | 1,13 TB                   | Intel® OS Guard                                                                | ✓                       |
| Opslagmedia *                                          | HDD+SSD                   | Intel® Software Guard Extensions (Intel® SGX)                                  | ✓                       |
| Het aantal geïnstalleerde HDD's                        | 1                         | Intel® Clear Video Technology for Mobile Internet Devices (Intel® CVT for MID) | ✓                       |
| HDD capaciteit                                         | 1 TB                      | Intel® 64                                                                      | ✓                       |
| SSD capaciteit                                         | 128 GB                    | Execute Disable Bit                                                            | ✓                       |
| Soort optische drive *                                 | DVD Super Multi           | Idle States                                                                    | ✓                       |
| Geïntegreerde geheugenkaartlezer                       | ✓                         | Thermal Monitoring Technologies                                                | ✓                       |
| Compatibele geheugenkaarten                            | SD, SDHC, SDXC            | Verpakkingsgrootte processor                                                   | 42 x 28 mm              |
| Grafisch                                               |                           | Ondersteunde instructie sets                                                   | SSE4.1, SSE4.2, AVX 2.0 |
| Discreet grafische adapter model *                     | NVIDIA® GeForce® GTX 1060 | Processorcode                                                                  | SR2FQ                   |
| Grafische geheugen                                     | 3 GB                      | CPU configuratie (max)                                                         | 1                       |
| Specifiek grafisch geheugentype                        | GDDR5                     | Ingebouwde opties beschikbaar                                                  | ✗                       |
| Ingebouwde grafische adapter *                         | ✓                         | Graphics & IMC lithografie                                                     | 14 nm                   |
| Aparte grafische adapter *                             | ✓                         | Intel® Virtualization Technology for Directed I/O (VT-d)                       | ✓                       |
| Familie ingebouwde grafische adapter                   | Intel® HD Graphics        | Versie Intel® Identity Protection Technology                                   | 1,00                    |
| On-board graphics adapter model *                      | Intel® HD Graphics 530    | Versie Intel® Smart Response Technology                                        | 1,00                    |
| Basisfrequentie ingebouwde grafische adapter           | 350 MHz                   | Versie Intel® Stable Image Platform Program (SIPP)                             | 0,00                    |
| Graphics on-board -adapter dynamische frequentie (max) | 1050 MHz                  | Versie Intel® Secure Key Technology                                            | 1,00                    |
| Maximaal geheugen ingebouwde grafische adapter         | 1,7 GB                    | Intel® Small Business Advantage (SBA)-versie                                   | 1,00                    |
| On-board grafische adapter DirectX-versie              | 12.0                      | Versie Intel® TSX-NI                                                           | 1,00                    |
| On-board grafische adapter OpenGL versie               | 4.4                       | Intel® Virtualization Technology (VT-x)                                        | ✓                       |
| On-board grafische adapter ID                          | 0x191B                    | ARK ID processor                                                               | 88967                   |
| Aantal discrete grafische adapters geïnstalleerd       | 1                         | Conflictvrije processor                                                        | ✓                       |
| NVIDIA G-SYNC                                          | ✓                         | Accu/Batterij                                                                  |                         |
| NVIDIA GameWorks VR                                    | ✓                         | Batterijtechnologie                                                            | Lithium-Ion (Li-Ion)    |
| CUDA                                                   | ✓                         | Aantal batterijcellen                                                          | 6                       |
| NVIDIA 3D Vision                                       | ✓                         | Capaciteit van de accu/batterij                                                | 4730 mAh                |
| Audio                                                  |                           | Batterijcapaciteit *                                                           | 51,4 Wh                 |
| Aantal ingebouwde luidsprekers                         | 4                         | Energie                                                                        |                         |
| Vermogen luidsprekers                                  | 8 W                       | AC-adapter, vermogen                                                           | 180 W                   |
| Ingebouwde subwoofer                                   | ✓                         | AC-adapterfrequentie                                                           | 50 - 60 Hz              |
| Ingebouwde microfoon                                   | ✓                         | AC-adapter, uitgangsspanning                                                   | 19.5 V                  |
| Camera                                                 |                           | Aansluiting voor netstroomadapter                                              | ✓                       |
| Camera voorzijde                                       | ✓                         |                                                                                |                         |
| Resolutie camera voorzijde                             | 1280 x 720 Pixels         |                                                                                |                         |
| Video capturing speed                                  | 30 fps                    |                                                                                |                         |
| Netwerk                                                |                           |                                                                                |                         |
| Wifi                                                   | ✓                         |                                                                                |                         |
| Wifi-standaard *                                       | Wi-Fi 5 (802.11ac)        |                                                                                |                         |

| Netwerk                                           |                                                                  | Beveiliging                             |            |
|---------------------------------------------------|------------------------------------------------------------------|-----------------------------------------|------------|
| Wi-Fi-standaarden                                 | 802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n) | Bevestigingsmogelijkheid voor kabelslot | ✓          |
| Ethernet LAN                                      | ✓                                                                | Kabelslot sleuf type                    | Kensington |
| Ethernet LAN, data-overdrachtsnelheden            | 10,100,1000 Mbit/s                                               | Gewicht en omvang                       |            |
| Bluetooth                                         | ✓                                                                | Breedte                                 | 420 mm     |
| Bluetooth-versie                                  | 4.0                                                              | Diepte                                  | 288 mm     |
| Poorten & interfaces                              |                                                                  | Hoogte (voorzijde)                      | 2,98 cm    |
| Aantal USB 2.0-poorten *                          | 1                                                                | Hoogte (achterzijde)                    | 3,2 cm     |
| Aantal poorten USB 3.2 Gen 1 (3.1 Gen 1) Type A * | 2                                                                | Gewicht *                               | 2,7 kg     |
| Aantal poorten USB 3.2 Gen 2 (3.1 Gen 2) Type C   | 1                                                                | Inhoud van de verpakking                |            |
| Aantal Ethernet LAN (RJ-45)-poorten               | 1                                                                | Inclusief AC-adapter *                  | ✓          |
| Aantal HDMI-poorten *                             | 1                                                                | Gebruikershandleiding                   | ✓          |
|                                                   |                                                                  | Overige specificaties                   |            |
|                                                   |                                                                  | LightScribe                             | ✗          |
|                                                   |                                                                  | 3D                                      | ✗          |

## Catalog Object Cloud



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