



**MSI Gaming GE72 6QC(Apache)-891PL Intel® Core™ i7 i7-6700HQ  
Laptop 43.9 cm (17.3") Full HD 8 GB DDR4-SDRAM 1 TB HDD  
NVIDIA® GeForce® GTX 960M Wi-Fi 5 (802.11ac) Windows 10  
Home Black**

**Brand :** MSI

**Product family:** Gaming

**Product code:** GE72  
6QC-891PL

**Product name :** GE72  
6QC(Apache)-891PL

Intel Core i7-6700HQ (6M Cache, 2.60 GHz), 17.3" Full HD (1920x1080) LED, 8GB DDR4, 1TB SATA HDD, DVD Super Multi, Intel HD Graphics 530 + NVIDIA GeForce GTX 960M 2GB GDDR5, Gigabit Ethernet, WLAN 802.11ac, Bluetooth 4.0, HD Webcam, Windows 10 Home 64-bit  
MSI Gaming GE72 6QC(Apache)-891PL. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor: i7-6700HQ, Processor frequency: 2.6 GHz. Display diagonal: 43.9 cm (17.3"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1 TB, Storage media: HDD, Optical drive type: DVD Super Multi. Operating system installed: Windows 10 Home. Product colour: Black



| Design                        |                                  | Ports & interfaces                           |                 |
|-------------------------------|----------------------------------|--|-----------------|
| Product type *                | Laptop                           | Headphone outputs                            | 1               |
| Product colour *              | Black                            | S/PDIF out port                              | ×               |
| Form factor *                 | Clamshell                        | Microphone in                                | ✓               |
| Market positioning            | Gaming                           | Docking connector                            | ×               |
| Display                       |                                  | ExpressCard slot                             | ×               |
| Display diagonal *            | 43.9 cm (17.3")                  | CardBus PCMCIA slot type                     | ×               |
| Display resolution *          | 1920 x 1080 pixels               | SmartCard slot                               | ×               |
| Touch screen *                | ×                                | Performance                                  |                 |
| HD type                       | Full HD                          | Motherboard chipset                          | Intel® HM170    |
| LED backlight                 | ✓                                | Keyboard                                     |                 |
| Native aspect ratio           | 16:9                             | Pointing device                              | Touchpad        |
| Display surface               | Matt                             | Numeric keypad *                             | ✓               |
| Dual-screen                   | ×                                | Keyboard backlit                             | ✓               |
| Processor                     |                                  | Windows keys                                 | ✓               |
| Processor manufacturer *      | Intel                            | Software                                     |                 |
| Processor family *            | Intel® Core™ i7                  | Operating system architecture                | 64-bit          |
| Processor generation          | 6th gen Intel® Core™ i7          | Operating system installed *                 | Windows 10 Home |
| Processor *                   | i7-6700HQ                        | Processor special features                   |                 |
| Processor number of cores     | 4                                | Intel Wireless Display (WiDi) Technology     | ✓               |
| Processor threads             | 8                                | Intel My WiFi Technology                     | ✓               |
| Processor boost frequency     | 3.5 GHz                          | Intel® Smart Response Technology             | ✓               |
| Processor frequency *         | 2.6 GHz                          | Intel Identity Protection Technology         | ✓               |
| System bus data transfer rate | 8 GT/s                           | Intel Hyper-Threading Technology             | ✓               |
| Processor cache               | 6 MB                             | Intel Turbo Boost Technology                 | 2.0             |
| Processor cache type          | Smart Cache                      | Intel® Small Business Advantage (Intel® SBA) | ✓               |
| Processor socket              | BGA 1440                         | Enhanced Intel SpeedStep Technology          | ✓               |
| Processor lithography         | 14 nm                            | Intel Clear Video HD Technology              | ✓               |
| Processor operating modes     | 64-bit                           |  |                 |
| Processor series              | Intel Core i7-6700 Mobile series |  |                 |
| Processor codename            | Skylake                          |  |                 |
| Bus type                      | DMI3                             |  |                 |
| Stepping                      | R0                               |  |                 |

| Processor                                      |  | Processor special features                              |                         |
|--|--|---|-------------------------|
| Thermal Design Power (TDP)                     | 45 W   | Intel Clear Video Technology                            | ✓                       |
| Configurable TDP-down                          | 35 W   | Intel® InTru™ 3D Technology                             | ✓                       |
| Tjunction                                      | 100 °C   | Intel® Insider™   | ✓                       |
| Maximum number of PCI Express lanes            | 16   | Intel® Quick Sync Video Technology                      | ✓                       |
| PCI Express slots version                      | 3.0  | Intel Flex Memory Access                                | ✓                       |
| PCI Express configurations                     | 1x16, 2x8, 1x8+2x4   | Intel AES New Instructions                              | ✓                       |
| ECC supported by processor                     | ✗  | Intel Trusted Execution Technology                      | ✗                       |
| Memory   |  | Intel Enhanced Halt State                               | ✓                       |
| Internal memory *                              | 8 GB   | Intel VT-x with Extended Page Tables (EPT)              | ✓                       |
| Internal memory type                           | DDR4-SDRAM   | Intel® Secure Key                                       | ✓                       |
| Memory clock speed                             | 2133 MHz   | Intel TSX-NI  | ✗                       |
| Memory form factor                             | SO-DIMM  | Intel Stable Image Platform Program (SIPP)              | ✗                       |
| Memory slots                                   | 2x SO-DIMM   | Intel® OS Guard   | ✓                       |
| Maximum internal memory *                      | 32 GB  | Intel Software Guard Extensions (Intel SGX)             | ✓                       |
| Storage  |  | Intel Clear Video Technology for MID                    | ✓                       |
| Total storage capacity *                       | 1 TB   | Intel 64  | ✓                       |
| Storage media *                                | HDD  | Execute Disable Bit                                     | ✓                       |
| Number of hard drives installed                | 1  | Idle States   | ✓                       |
| Hard drive capacity                            | 1 TB   | Thermal Monitoring Technologies                         | ✓                       |
| Optical drive type *                           | DVD Super Multi  | Processor package size                                  | 42 x 28 mm              |
| Card reader integrated                         | ✓  | Supported instruction sets                              | SSE4.1, SSE4.2, AVX 2.0 |
| Compatible memory cards                        | SD, SDHC, SDXC   | Processor code  | SR2FQ                   |
| Graphics                                       |  | CPU configuration (max)                                 | 1                       |
| Discrete graphics card model *                 | NVIDIA® GeForce® GTX 960M  | Embedded options available                              | ✗                       |
| Discrete graphics card memory                  | 2 GB   | Graphics & IMC lithography                              | 14 nm                   |
| Discrete graphics memory type                  | GDDR5  | Intel Virtualization Technology for Directed I/O (VT-d) | ✓                       |
| On-board graphics card *                       | ✓  | Intel Identity Protection Technology version            | 1.00                    |
| Discrete graphics card *                       | ✓  | Intel Smart Response Technology version                 | 1.00                    |
| On-board graphics card model *                 | Intel® HD Graphics 530   | Intel Stable Image Platform Program (SIPP) version      | 0.00                    |
| On-board graphics card base frequency          | 350 MHz  | Intel Secure Key Technology version                     | 1.00                    |
| On-board graphics card dynamic frequency (max) | 1050 MHz   | Intel Small Business Advantage (SBA) version            | 1.00                    |
| Maximum on-board graphics card memory          | 1.7 GB   | Intel TSX-NI version                                    | 1.00                    |
| On-board graphics card DirectX version         | 12.0   | Intel Virtualization Technology (VT-x)                  | ✓                       |
| On-board graphics card OpenGL version          | 4.4  | Processor ARK ID  | 88967                   |
| On-board graphics card ID                      | 0x191B   | Conflict-Free processor                                 | ✓                       |
| Number of discrete graphics cards installed    | 1  | Battery   |                         |
| Audio  |  | Battery technology                                      | Lithium-Ion (Li-Ion)    |
| Speakers manufacturer                          | Dynaudio   | Number of battery cells                                 | 6                       |
| Built-in microphone                            | ✓  | Energy Management                                       |                         |
| Camera   |  | AC adapter power  | 120 W                   |
| Front camera                                   | ✓  | AC adapter frequency                                    | 50 - 60 Hz              |
| Front camera resolution                        | 1280 x 720 pixels  | DC-in jack  | ✓                       |
| Video capturing speed                          | 30 fps   | Security  |                         |
| Network  |  | Cable lock slot   | ✓                       |
| Wi-Fi  | ✓  | Cable lock slot type                                    | Kensington              |
| Top Wi-Fi standard *                           | Wi-Fi 5 (802.11ac)   | Weight & Dimensions                                     |                         |
| Wi-Fi standards                                | 802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n) | Width   | 419.9 mm                |
| Ethernet LAN connection                        | ✓  | Depth   | 287.8 mm                |
| Ethernet LAN data rates                        | 10,100,1000 Mbit/s   | Height (front)  | 2.98 cm                 |
| Bluetooth                                      | ✓  |   |                         |

| Ports & interfaces                                |     | Weight & Dimensions  |        |
|---|-----|----------------------|--------|
| USB 2.0 ports quantity *                          | 1   | Height (rear)        | 3.2 cm |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 2   | Weight *             | 2.9 kg |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity * | 1   | Packaging Content    |        |
| Ethernet LAN (RJ-45) ports quantity               | 1   | AC adapter bundled * | ✓      |
| HDMI ports quantity *                             | 1   | Manual               | ✓      |
| HDMI version                                      | 1.4 | Other features       |        |
| Mini DisplayPort quantity                         | 1   | LightScribe          | ✗      |
| DVI port  | ✗   | 3D compatibility     | ✗      |

## Catalog Object Cloud



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