



**MSI Gaming GE60 2QE(Apache Pro)-1094XTR Intel® Core™ i7  
i7-4720HQ Laptop 39,6 cm (15.6") Full HD 8 GB DDR3L-SDRAM 1  
TB HDD NVIDIA® GeForce® GTX 960M Wi-Fi 5 (802.11ac) FreeDOS  
Schwarz**



**Marke :** MSI

**Produktfamilie:** Gaming

**Artikel-Code:** GE60  
2QE-1094XTR

**Produktname :** GE60  
2QE(Apache Pro)-1094XTR

MSI Gaming GE60 2QE(Apache Pro)-1094XTR. Produkttyp: Laptop, Formfaktor: Klappgehäuse.  
Prozessorfamilie: Intel® Core™ i7, Prozessor: i7-4720HQ, Prozessor-Taktfrequenz: 2,6 GHz.  
Bildschirmdiagonale: 39,6 cm (15.6"), HD-Typ: Full HD, Display-Auflösung: 1920 x 1080 Pixel.  
Speicherkapazität: 8 GB, Interner Speichertyp: DDR3L-SDRAM. Gesamtspeicherkapazität: 1 TB,  
Speichermedien: HDD, Optisches Laufwerk - Typ: DVD Super Multi. Installiertes Betriebssystem:  
FreeDOS. Produktfarbe: Schwarz

| Design                     |                                        | Anschlüsse und Schnittstellen                         |             |
|----------------------------|----------------------------------------|-------------------------------------------------------|-------------|
| Produkttyp *               | Laptop                                 | Anzahl VGA (D-Sub) Anschlüsse                         | 1           |
| Produktfarbe *             | Schwarz                                | Kopfhörerausgänge                                     | 1           |
| Formfaktor *               | Klappgehäuse                           | S/PDIF-Ausgang                                        | ✗           |
| Marktpositionierung        | Gaming                                 | Mikrofon-Eingang                                      | ✓           |
| Bildschirm                 |                                        | Docking-Connector                                     | ✗           |
| Bildschirmdiagonale *      | 39,6 cm (15.6")                        | ExpressCard-Slot                                      | ✗           |
| Display-Auflösung *        | 1920 x 1080 Pixel                      | CardBus PCMCIA Slot-Typ                               | ✗           |
| Touchscreen *              | ✗                                      | SmartCard-Slot                                        | ✗           |
| HD-Typ                     | Full HD                                | Leistungen                                            |             |
| LED-Hintergrundbeleuchtung | ✓                                      | Motherboard Chipsatz                                  | Intel® HM86 |
| Natives Seitenverhältnis   | 16:9                                   | Tastatur                                              |             |
| Display-Oberfläche         | Matt                                   | Eingabegerät                                          | Touchpad    |
| Dualer Bildschirm          | ✗                                      | Numerisches Keypad *                                  | ✓           |
| Prozessor                  |                                        | Tastatur mit Hintergrundbeleuchtung                   | ✓           |
| Prozessorhersteller *      | Intel                                  | Windows Tasten                                        | ✓           |
| Prozessorfamilie *         | Intel® Core™ i7                        | Software                                              |             |
| Prozessorgeneration        | Intel® Core™ i7 der vierten Generation | Installiertes Betriebssystem *                        | FreeDOS     |
| Prozessor *                | i7-4720HQ                              | Prozessor Besonderheiten                              |             |
| Anzahl Prozessorkerne      | 4                                      | Intel® Wireless-Display (Intel® WiDi)                 | ✓           |
| Prozessor-Threads          | 8                                      | Intel® My-WiFi-Technik (Intel® MWT)                   | ✗           |
| Prozessor Boost-Frequenz   | 3,6 GHz                                | Intel® Anti-Theft Technologie (Intel® AT)             | ✓           |
| Prozessor-Taktfrequenz *   | 2,6 GHz                                | Intel® Identity-Protection-Technologie (Intel® IPT)   | ✓           |
| Systembus-Rate             | 5 GT/s                                 | Intel® Hyper-Threading-Technik (Intel® HT Technology) | ✓           |
| Prozessor-Cache            | 6 MB                                   | Intel® Turbo-Boost-Technologie                        | ✗           |
| Prozessor Cache Typ        | L3                                     | Verbesserte Intel SpeedStep Technologie               | ✓           |
| Prozessorsockel            | BGA 1364                               |                                                       |             |
| Prozessor Lithografie      | 22 nm                                  |                                                       |             |
| Prozessorbetriebsmodi      | 64-Bit                                 |                                                       |             |
| Prozessor-Serien           | Intel Core i7-4700 Mobile series       |                                                       |             |
| Prozessor Codename         | Haswell                                |                                                       |             |
| Bus Typ                    | DMI2                                   |                                                       |             |

| Prozessor                                             |                                                                  | Prozessor Besonderheiten                                                        |                         |
|-------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------|
| FSB Gleichwertigkeit                                  | ✗                                                                | Intel® Built-in Visuals Technologie                                             | ✓                       |
| Stepping                                              | C0                                                               | Intel® HD Graphics                                                              | ✓                       |
| Thermal Design Power (TDP)                            | 47 W                                                             | Intel® Clear Video HD Technology für (Intel® CVT HD)                            | ✓                       |
| Tjunction                                             | 100 °C                                                           | Intel® Clear Video Technologie                                                  | ✗                       |
| Maximale Anzahl der PCI-Express-Lanes                 | 16                                                               | Intel® InTru™ 3D Technologie                                                    | ✓                       |
| PCI-Express-Slots-Version                             | 3.0                                                              | Intel® Insider™                                                                 | ✓                       |
| PCI Express Konfigurationen                           | 1x16, 2x8, 1x8+2x4                                               | Intel® Quick-Sync-Video-Technik                                                 | ✓                       |
| ECC vom Prozessor unterstützt                         | ✗                                                                | Intel® Flex Memory Access                                                       | ✗                       |
| Speicher                                              |                                                                  | Intel® Smart Cache                                                              | ✓                       |
| Speicherkapazität *                                   | 8 GB                                                             | Intel® AES New Instructions (Intel® AES-NI)                                     | ✓                       |
| Interner Speichertyp                                  | DDR3L-SDRAM                                                      | Intel® Trusted-Execution-Technik                                                | ✗                       |
| Speichertaktfrequenz                                  | 1600 MHz                                                         | Intel® Enhanced Halt State                                                      | ✓                       |
| Memory Formfaktor                                     | SO-DIMM                                                          | Intel® VT-x mit Extended Page Tables (EPT)                                      | ✓                       |
| Speicherkartensteckplätze                             | 2x SO-DIMM                                                       | Intel® Demand Based Switching                                                   | ✗                       |
| RAM-Speicher maximal *                                | 16 GB                                                            | Intel® Sicherer Schlüssel                                                       | ✓                       |
| Speichermedium                                        |                                                                  | Intel® TSX-NI                                                                   | ✗                       |
| Gesamtspeicherkapazität *                             | 1 TB                                                             | Intel® Clear Video Technologie für Mobile Internet Devices (Intel® CVT for MID) | ✗                       |
| Speichermedien *                                      | HDD                                                              | Intel® 64                                                                       | ✓                       |
| Anzahl der installierten HDDs                         | 1                                                                | Execute Disable Bit                                                             | ✓                       |
| HDD Kapazität                                         | 1 TB                                                             | Leerlauf Zustände                                                               | ✓                       |
| Optisches Laufwerk - Typ *                            | DVD Super Multi                                                  | Thermal-Überwachungstechnologien                                                | ✓                       |
| Integrierter Kartenleser                              | ✓                                                                | Prozessor-Paketgröße                                                            | 37.5 x 32 x 1.6 mm      |
| Kompatible Speicherkarten                             | SD, SDHC, SDXC                                                   | Unterstützte Befehlssätze                                                       | AVX 2.0, SSE4.1, SSE4.2 |
| Grafik                                                |                                                                  | Prozessor-Code                                                                  | SR1Q8                   |
| Separates Grafikkartenmodell *                        | NVIDIA® GeForce® GTX 960M                                        | CPU Konfiguration (max)                                                         | 1                       |
| Separater Grafik-Adapterspeicher                      | 2 GB                                                             | Eingebettete Optionen verfügbar                                                 | ✗                       |
| Dedizierter Grafikspeicher Typ                        | GDDR5                                                            | Intel® Virtualisierungstechnik für direkte I/O (VT-d)                           | ✓                       |
| Eingebaute Grafikkarte *                              | ✓                                                                | Intel® Identity Protection Technologieversion                                   | 1,00                    |
| Separater Grafikkarte *                               | ✓                                                                | Intel® Secure Key Technologieversion                                            | 1,00                    |
| On-Board-Grafikkartenfamilie                          | Intel® HD Graphics                                               | Intel® TSX-NI-Version                                                           | 0,00                    |
| Eingebautes Grafikkartenmodell *                      | Intel® HD Graphics 4600                                          | Intel® Virtualization Technologie (VT-X)                                        | ✓                       |
| On-Board Grafikkarte                                  | 400 MHz                                                          | Intel® Dual Display Capable Technology                                          | ✗                       |
| Basisfrequenz                                         | 400 MHz                                                          | Intel® FDI-Technik                                                              | ✓                       |
| Maximale dynamische Frequenz der On-Board Grafikkarte | 1200 MHz                                                         | Intel® Rapid-Storage-Technik                                                    | ✗                       |
| Maximaler integrierter Grafik-Adapterspeicher         | 1,74 GB                                                          | Intel® Fast Memory Access                                                       | ✗                       |
| On-Board Grafikkarte DirectX Version                  | 11.2/12                                                          | ARK Prozessorerkennung                                                          | 78934                   |
| On-Board Grafikkarte OpenGL Version                   | 4.3                                                              | Konfliktloser-Prozessor                                                         | ✓                       |
| On-Board Grafikkarte Geräte-ID                        | 0x416                                                            | Akku/Batterie                                                                   |                         |
| Open GL Unterstützung des Graphik-Adapters            | ✓                                                                | Akku-/Batterietechnologie                                                       | Lithium-Ion (Li-Ion)    |
| Audio                                                 |                                                                  | Anzahl Batteriezellen                                                           | 6                       |
| Audio-System                                          | Audio Boost                                                      | Energie                                                                         |                         |
| Lautsprecher Hersteller                               | Dynaudio                                                         | Netzteilstärke                                                                  | 120 W                   |
| Eingebautes Mikrofon                                  | ✓                                                                | Netzteilfrequenz                                                                | 50 - 60 Hz              |
| Kamera                                                |                                                                  | Gleichstrom-Anschluss (DC)                                                      | ✓                       |
| Frontkamera                                           | ✓                                                                | Sicherheit                                                                      |                         |
| Video-Capture Geschwindigkeit                         | 30 fps                                                           | Kabelsperr-Slot                                                                 | ✗                       |
| Netzwerk                                              |                                                                  | Gewicht und Abmessungen                                                         |                         |
| WLAN                                                  | ✓                                                                | Breite                                                                          | 383 mm                  |
| Top WLAN-Standard *                                   | Wi-Fi 5 (802.11ac)                                               |                                                                                 |                         |
| WLAN-Standards                                        | 802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n) |                                                                                 |                         |
| Ethernet/LAN                                          | ✓                                                                |                                                                                 |                         |

| Netzwerk                                                    |                    | Gewicht und Abmessungen                    |            |
|-------------------------------------------------------------|--------------------|--------------------------------------------|------------|
| Ethernet LAN Datentransferraten                             | 10,1000,100 Mbit/s | Tiefe                                      | 249 mm     |
| Bluetooth                                                   | ✓                  | Höhe                                       | 32 mm      |
| Bluetooth-Version                                           | 4.0                | Gewicht *                                  | 2,6 kg     |
| Anschlüsse und Schnittstellen                               |                    | Lieferumfang                               |            |
| Anzahl USB 2.0 Anschlüsse *                                 | 2                  | AC-Netzadapter *                           | ✓          |
| USB 3.2 Gen 1 (3.1 Gen 1) Anzahl der Anschlüsse vom Typ A * | 2                  | Mitgelieferte Kabel                        | AC         |
| Anzahl Ethernet-LAN-Anschlüsse (RJ-45)                      | 1                  | Betriebsanleitung                          | ✓          |
|                                                             |                    | Sonstige Funktionen                        |            |
| Anzahl HDMI-Anschlüsse *                                    | 1                  | LightScribe                                | ✗          |
| HDMI-Version                                                | 1.4                | 3D                                         | ✗          |
| DVI Anschluss                                               | ✗                  | Intel® Virtualisierungstechnik (Intel® VT) | VT-x, VT-d |

## Catalog Object Cloud



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