



Lenovo Essential G710 Intel® Core™ i3 i7-4702MQ 43.9 cm (17.3") HD+ 8 GB DDR3-SDRAM 1 TB HDD NVIDIA® GeForce® GT 720M Windows 8

Brand: Lenovo

Series: Essential

Model: 59376333

Product line: G710

Lenovo Essential G710. Processor: Intel® Core™ i3, Model: i7-4702MQ, Frequency: 2.2 GHz. Display diagonal: 43.9 cm (17.3"), HD type: HD+, Resolution: 1600 x 900 pixels. Memory: 8 GB, Type: DDR3-SDRAM. Storage: 1 TB, Type: HDD. Operating system: Windows 8. Color: Black



| Design | | Keyboard | |
|-------------------------------------|----------------------------------|--|-----------|
| Product type * | Laptop | Pointing device | Touchpad |
| Product colour * | Black | Numeric keypad * | ✓ |
| Form factor * | Clamshell | Spill-resistant keyboard | ✓ |
| Display | | Full-size keyboard | ✓ |
| Display diagonal * | 43.9 cm (17.3") | Windows keys | ✓ |
| Display resolution * | 1600 x 900 pixels | Software | |
| Touchscreen * | ✓ | Operating system installed * | Windows 8 |
| HD type | HD+ | Processor special features | |
| LED backlight | ✓ | Intel® Wireless Display (Intel® WiDi) | ✓ |
| Native aspect ratio | 16:9 | Intel® My WiFi Technology (Intel® MWT) | ✓ |
| Processor | | Intel Smart Connect Technology | ✗ |
| Processor manufacturer * | Intel | Intel® Anti-Theft Technology (Intel® AT) | ✓ |
| Processor family * | Intel® Core™ i7 | Intel® Rapid Start Technology | ✗ |
| Processor generation | 4th gen Intel® Core™ i7 | Intel® Smart Response Technology | ✗ |
| Processor model * | i7-4702MQ | Intel® Identity Protection Technology (Intel® IPT) | ✓ |
| Processor cores | 4 | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ |
| Processor threads | 8 | Intel® Turbo Boost Technology | 2.0 |
| Processor boost frequency | 3.2 GHz | Intel® Matrix Storage Technology (Intel® MST) | ✗ |
| Processor frequency * | 2.2 GHz | Intel® High Definition Audio (Intel® HD Audio) | ✗ |
| Processor cache | 6 MB | Intel® Active Management Technology (Intel® AMT) | ✗ |
| Processor cache type | Smart Cache | Enhanced Intel SpeedStep Technology | ✓ |
| Processor socket | PGA946 | Intel® Clear Video HD Technology (Intel® CVT HD) | ✓ |
| Processor lithography | 22 nm | Intel Clear Video Technology | ✗ |
| Processor operating modes | 64-bit | Intel® InTru™ 3D Technology | ✓ |
| Processor series | Intel Core i7-4700 Mobile series | Intel® Insider™ | ✓ |
| Processor codename | Haswell | | |
| Bus type | DMI2 | | |
| FSB Parity | ✗ | | |
| Stepping | C0 | | |
| Thermal Design Power (TDP) | 37 W | | |
| Tjunction | 100 °C | | |
| Maximum number of PCI Express lanes | 16 | | |
| PCI Express slots version | 3.0 | | |

| Processor | | Processor special features | |
|---|-------------------------------------|---|-------------------------|
| PCI Express configurations | 1x16, 2x8, 1x8+2x4 | Intel® Quick Sync Video Technology | ✓ |
| ECC supported by processor | ✗ | Intel Flex Memory Access | ✗ |
| Memory | | Intel® Smart Cache | ✓ |
| Internal memory * | 8 GB | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Internal memory type | DDR3-SDRAM | Intel Trusted Execution Technology | ✗ |
| Memory clock speed | 1600 MHz | Intel Enhanced Halt State | ✓ |
| Memory form factor | SO-DIMM | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Memory slots | 2x SO-DIMM | Intel Demand Based Switching | ✗ |
| Maximum internal memory * | 16 GB | Intel® Secure Key | ✓ |
| Storage | | Intel TSX-NI | ✗ |
| Total storage capacity * | 1 TB | Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID) | ✗ |
| Storage media * | HDD | Intel 64 | ✓ |
| Number of HDDs installed | 1 | Execute Disable Bit | ✓ |
| HDD capacity | 1 TB | Idle States | ✓ |
| HDD interface | SATA | Thermal Monitoring Technologies | ✓ |
| HDD speed | 5400 RPM | Processor package size | 37.5 x 32 x 1.6 mm |
| HDD size | 2.5" | Supported instruction sets | AVX 2.0, SSE4.1, SSE4.2 |
| Optical drive type * | DVD±RW | Processor code | SR15J |
| Card reader integrated | ✓ | CPU configuration (max) | 1 |
| Compatible memory cards | MMC, SD | Embedded options available | ✗ |
| Graphics | | Intel Virtualization Technology for Directed I/O (VT-d) | ✗ |
| Discrete graphics card model * | NVIDIA® GeForce® GT 720M | Intel Identity Protection Technology version | 1.00 |
| On-board graphics card * | ✓ | Intel Secure Key Technology version | 1.00 |
| Discrete graphics card * | ✓ | Intel TSX-NI version | 0.00 |
| On-board graphics card family | Intel® HD Graphics | Intel Virtualization Technology (VT-x) | ✓ |
| On-board graphics card model * | Intel® HD Graphics 4600 | Intel Dual Display Capable Technology | ✗ |
| On-board graphics card base frequency | 400 MHz | Intel FDI Technology | ✓ |
| On-board graphics card dynamic frequency (max) | 1150 MHz | Intel Rapid Storage Technology | ✗ |
| Maximum on-board graphics card memory | 1.74 GB | Intel Fast Memory Access | ✗ |
| On-board graphics card DirectX version | 11.1 | Processor ARK ID | 75119 |
| On-board graphics card ID | 0x416 | Conflict-Free processor | ✓ |
| Number of discrete graphics cards supported | 1 | | |
| Number of discrete graphics cards installed | 1 | | |
| Audio | | Battery | |
| Audio system | Dolby Advanced | Battery technology | Lithium-Ion (Li-Ion) |
| Number of built-in speakers | 2 | Number of battery cells | 6 |
| Built-in microphone | ✓ | Battery life (max) | 5 h |
| Camera | | Power | |
| Front camera | ✓ | AC adapter power | 65 W |
| Front camera resolution | 1280 x 720 pixels | AC adapter frequency | 50 - 60 Hz |
| Network | | AC adapter input voltage | 100 - 240 V |
| Wi-Fi | ✓ | DC-in jack | ✓ |
| Wi-Fi standards | 802.11b, 802.11g, Wi-Fi 4 (802.11n) | | |
| Ethernet LAN | ✓ | | |
| Ethernet LAN data rates | 10,100 Mbit/s | | |
| Bluetooth | ✓ | | |
| Bluetooth version | 4.0 | | |
| Ports & interfaces | | Security | |
| USB 2.0 ports quantity * | 2 | Cable lock slot | ✓ |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 1 | Cable lock slot type | Kensington |
| | | | |
| | | Weight & dimensions | |
| | | Width | 418 mm |
| | | Depth | 278 mm |
| | | Height | 36.8 mm |
| | | Weight * | 2.9 kg |

| Ports & interfaces | | Packaging content | |
|----------------------------|-------------|----------------------------------|-------|
| Ethernet LAN (RJ-45) ports | 1 | AC adapter included * | ✓ |
| HDMI ports quantity * | 1 | Manual | ✓ |
| DVI port | ✗ | Power cord included | ✓ |
| VGA (D-Sub) ports quantity | 1 | Other features | |
| S/PDIF out port | ✗ | Maximum internal memory (64-bit) | 16 GB |
| Microphone in | ✗ | | |
| Combo headphone/mic port | ✓ | | |
| Docking connector | ✗ | | |
| ExpressCard slot | ✗ | | |
| CardBus PCMCIA slot type | ✗ | | |
| SmartCard slot | ✗ | | |
| Performance | | | |
| Motherboard chipset | Intel® HM86 | | |

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