



**Lenovo ThinkCentre M90a Pro Gen 4 Intel® Core™ i7 i7-13700**  
**68,6 cm (27") 2560 x 1440 px All-in-One PC (vše v jednom) 16 GB**  
**DDR5-SDRAM 512 GB SSD Windows 11 Pro Wi-Fi 6E (802.11ax)**  
**Černá**

**Značka :** Lenovo

**Product family:** ThinkCentre

**Kód produktu:** 12JM0019SP

**Název produktu :** M90a Pro  
Gen 4

Lenovo ThinkCentre M90a Pro Gen 4. Typ produktu: All-in-One PC (vše v jednom). Úhlopříčka displeje: 68,6 cm (27"), Typ HD rozlišení: Quad HD, Rozlišení displeje: 2560 x 1440 px, Typ panelu: IPS. Typ procesoru: Intel® Core™ i7. Vnitřní paměť: 16 GB, Typ vnitřní paměti: DDR5-SDRAM. Celková kapacita úložiště: 512 GB, Ukládací médium: SSD. Model grafického adaptéru na kartě: Intel UHD Graphics 770. Integrovaný fotoaparát. Typ optické jednotky: DVD±RW. Poskytovaný operační systém: Windows 11 Pro. Barva: Černá



| Display                              |                          | Camera  |                      |
|--------------------------------------|--------------------------|---|----------------------|
| Display diagonal *                   | 68.6 cm (27")            | Privacy type                                      | Privacy shutter      |
| Display resolution *                 | 2560 x 1440 pixels       | Network   |                      |
| Touchscreen *                        | ✗                        | Wi-Fi *   | ✓                    |
| HD type *                            | Quad HD                  | Top Wi-Fi standard *                              | Wi-Fi 6E (802.11ax)  |
| Native aspect ratio                  | 16:9                     | Wi-Fi standards                                   | Wi-Fi 6E (802.11ax)  |
| Display brightness                   | 350 cd/m²                | WLAN controller manufacturer                      | Intel                |
| Panel type                           | IPS                      | WLAN controller model                             | Intel Wi-Fi 6E AX211 |
| RGB colour space                     | sRGB                     | Antenna type                                      | 2x2                  |
| Anti-glare screen                    | ✓                        | Ethernet LAN *                                    | ✓                    |
| Colour gamut                         | 99%                      | Ethernet LAN data rates                           | 100,1000 Mbit/s      |
| Processor                            |                          | Bluetooth *                                       | ✓                    |
| Processor manufacturer *             | Intel                    | Bluetooth version                                 | 5.1                  |
| Processor family *                   | Intel® Core™ i7          | Ports & interfaces                                |                      |
| Processor generation                 | 13th gen Intel® Core™ i7 | Ethernet LAN (RJ-45) ports                        | 1                    |
| Processor model *                    | i7-13700                 | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 3                    |
| Processor cores                      | 16                       | USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 2                    |
| Processor boost frequency            | 5.2 GHz                  | USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity * | 1                    |
| Performance cores                    | 8                        | Intel® Thunderbolt 4                              | ✓                    |
| Efficient cores                      | 8                        | Thunderbolt 4 ports quantity                      | 1                    |
| Performance-core Max Turbo Frequency | 5.1 GHz                  | HDMI ports quantity *                             | 1                    |
| Efficient-core Max Turbo Frequency   | 4.1 GHz                  | DisplayPorts quantity                             | 1                    |
| Performance-core base frequency      | 2.1 GHz                  | Combo headphone/mic port                          | ✓                    |
| Efficient-core base frequency        | 1.5 GHz                  | Design  |                      |
| Processor cache                      | 30 MB                    | Colour name                                       | Black                |
| Processor cache type                 | Smart Cache              | Product colour *                                  | Black                |
| Processor base power                 | 65 W                     |   |                      |
| Maximum turbo power                  | 219 W                    |   |                      |

| Memory                         |                        | Design                                |                              |
|--------------------------------|------------------------|---------------------------------------|------------------------------|
| Internal memory *              | 16 GB                  | Cable lock slot                       | ✓                            |
| Internal memory type           | DDR5-SDRAM             | Cable lock slot type                  | Kensington                   |
| Maximum internal memory *      | 64 GB                  | Performance                           |                              |
| Memory slots                   | 2                      | Product type *                        | All-in-One PC                |
| Memory slots type              | SO-DIMM                | Motherboard chipset                   | Intel Q670                   |
| Memory clock speed             | 5600 MHz               | Trusted Platform Module (TPM)         | ✓                            |
| Memory layout (slots x size)   | 1 x 16 GB              | Trusted Platform Module (TPM) version | 2.0                          |
| Memory form factor             | DIMM/SO-DIMM           | Software                              |                              |
| Storage                        |                        | Operating system architecture         | 64-bit                       |
| Total storage capacity *       | 512 GB                 | Operating system installed *          | Windows 11 Pro               |
| Storage media *                | SSD                    | Power                                 |                              |
| Total SSDs capacity            | 512 GB                 | AC adapter power                      | 230 W                        |
| Number of SSDs installed       | 1                      | AC adapter frequency                  | 50 - 60 Hz                   |
| SSD capacity                   | 512 GB                 | AC adapter input voltage              | 100 - 240 V                  |
| SSD interface                  | PCI Express 4.0        | Weight & dimensions                   |                              |
| NVMe                           | ✓                      | Width (with stand)                    | 613.6 mm                     |
| SSD form factor                | M.2                    | Depth (with stand)                    | 219.8 mm                     |
| Optical drive type *           | DVD±RW                 | Height (with stand)                   | 411 mm                       |
| Card reader integrated         | ✓                      | Weight (with stand)                   | 11.2 kg                      |
| Graphics                       |                        | Operational conditions                |                              |
| Discrete graphics card *       | ✗                      | Operating temperature (T-T)           | 5 - 35 °C                    |
| Discrete graphics card model * | Not available          | Storage temperature (T-T)             | -20 - 60 °C                  |
| On-board graphics card *       | ✓                      | Operating relative humidity (H-H)     | 20 - 80%                     |
| On-board GPU manufacturer      | Intel                  | Storage relative humidity (H-H)       | 10 - 90%                     |
| On-board graphics card family  | Intel® UHD Graphics    | Operating altitude                    | -15.2 - 3048 m               |
| On-board graphics card model * | Intel UHD Graphics 770 | Non-operating altitude                | -15.2 - 12192 m              |
| Audio                          |                        | Certificates                          |                              |
| Built-in speaker(s) *          | ✓                      | Compliance certificates               | RoHS                         |
| Number of speakers             | 2                      | Sustainability                        |                              |
| RMS rated power                | 10 W                   | Sustainability certificates           | ENERGY STAR, TCO, EPEAT Gold |
| Built-in microphone            | ✓                      | Packaging content                     |                              |
| Camera                         |                        | Mouse included                        | ✓                            |
| Built-in camera *              | ✓                      | Mouse connectivity                    | Wireless                     |
| Total megapixels               | 5 MP                   | Keyboard included                     | ✓                            |
| Privacy camera                 | ✓                      | Keyboard connectivity                 | Wireless                     |
|                                |                        | Keyboard language                     | Spanish                      |



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