ideacentre 510A-15IKL Platform Specifications

Processor

Intel® Pentium® Processor or 7th or 9th Generation Intel Core™ i3 / i5 / i7 Processors

Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Type	Integrated Graphics
Celeron G3900	2 / 2	2.8 GHz	2 MB	DDR4-2133	Intel HD Graphics 510
Celeron G3930	2 / 2	2.9 GHz	2 MB		Intel HD Graphics 610
Pentium G4560	2 / 4	3.5 GHz	3 MB	DDR4-2400	Intel HD Graphics 610
Core i3-6100	2 / 4	3.7 GHz	3 MB	DDR4-2133	Intel HD Graphics 530
Core i3-7100	2 / 4	3.9 GHz	3 MB	DDR4-2400	Intel HD Graphics 630
Core i5-7400	4 / 4	3.0 GHz / 3.5 GHz	6 MB		
Core i7-7700	4 / 8	3.6 GHz / 4.2 GHz	8 MB		
Core i5-9400	6 / 6	2.9 GHz / 4.1 GHz	9 MB	DDR4-2666	

Memory

32GB max, 2400MHz DDR4, two sockets, dual-channel capable

Storage

Some: SATA 6.0Gb/s, 3.5" wide, 7200 rpm
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x4, 32Gb/s
Some: Intel Optane™ Memory, PCIe NVMe, PCIe 3.0 x2, 16Gb/s, M.2
* 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s

Optical *(opt)*

DVD±RW, SATA 1.5Gb/s, slim

Onboard SATA

SATA 6.0Gb/s controller, three SATA 6.0Gb/s connectors

Media reader

Opitonal 7-in-1 media reader (SD, SDHC, SDXC, MMC, MS, MS-Pro, MMC plus)

Graphics

Intel HD Graphics 610 or 630 in processor, uses main memory, DirectX 12, one VGA, one HDMI
1920x1080@30Hz (HDMI); 1920x1200@60Hz (VGA)

Some: **NVIDIA® GeForce® GT 730**, **1GB or 2GB GDDR5**, DirectX 12, one VGA, one HDMI;
Max resolution: 3840x2160 (HDMI)@30Hz; 2048x1536 (VGA)@75Hz;

Some: **NVIDIA® GeForce® GT 730**, **2GB GDDR3**, DirectX 12, one VGA, one HDMI;
Max resolution: 1920x1080 (HDMI)@60Hz; 2048x1536 (VGA)@85Hz;

Some: **NVIDIA GeForce GTX 1050**, **2GB GDDR5**, DirectX 12, one DVI, one HDMI, one DP;
Max resolution: 4096x2160 (HDMI)@60Hz; 7680x4320 (DP)@60Hz; 2560x1600 (DVI)@60Hz

Some: **AMD Radeon RX 560**, **4GB GDDR5**, DirectX 12, one HDMI, one DVI, one DP;
Max resolution: 4096x2160 (HDMI)@60Hz; 5120x2880 (DP)@60Hz; 2560x1600 (DVI)@60Hz

Chipset

Intel B250 Chipset

Front ports*

One headphone / microphone combo jack (3.5mm), four USB 3.1 Gen1, one microphone (3.5mm), optional media reader

Rear ports*

Two USB 2.0, two USB 3.1 Gen1, ethernet (RJ-45), one VGA, one HDMI

Rear audio ports

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394

None

** Depending on many factors, actual data transfer speed may be lower than theoretical speed*

Audio support

High Definition (HD) Audio, Realtek® ALC662

WLAN

11ac, M.2 Card, Wi-Fi + Bluetooth combo adapter, 1x1

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, RTL8111GN

Modem

None

Security features

- Power-on password
- Administrator password
- Hard-disk password
- Kensington® lock

Keyboard

Lenovo Calliope Keyboard (USB connector), Fn keys, black

Mouse

Lenovo Calliope Mouse (USB connector), black

Mechanical

- Tower (15L), black chassis, gun metal color bezel
- Dimensions (WxDxH): 5.71" x 11.22" x 14.41"; 145mm x 285.2mm x 366.03mm
- Weights (net weight): 12.8 lb (5.8 kg), weight may vary by configuration
- Optional front and rear system fan

Bay 1: slim optical bay
Bay 2: 3.5", disk bay
Bay 3: 3.5" or 2.5", disk bay
Slot 1: full-length half-height, PCIe 3.0 x16
Slot 2: full-length half-height, PCIe 3.0 x1
M.2 card slots: one for WLAN, one for M.2 SSD / Optane

Power supply

Some: 180 watts, autosensing, 85% PSU, EnergyStar 6.1, universal (100V-240V)
Some: 210 watts, autosensing, 85% PSU, EnergyStar 6.1, universal (100V-240V)

Limited warranty

- 1-year or 2-year, depot repair service / service upgrades available
- 1-year, limited mail-in service / service upgrades available

Preload

Preloaded operating system
Windows® 10 Home 64
Preloaded applications (only some listed)

- Microsoft Office preloaded; purchase a product key to activate
- Lenovo® Application Explorer
- Lenovo PC Manager
- McAfee® LiveSafe™ (30-day trial)
- PowerDVD (DVD±RW)
- Power2GO (DVD±RW)

Environment

ENERGY STAR® 6.1; GREENGUARD®; ErP Lot 3; RoHS-compliant