ideacentre 510-15IKL 90G8002EGE

Product
ideacentre 510-15IKL

Region
WE

Country/Region
Germany

Machine Type
90G8

Processor
Intel Core i5-7400 (4C / 4T, 3.0 / 3.5GHz, 6MB)

Graphics
NVIDIA GeForce GTX 1050 2GB GDDR5

Chipset
Intel B250

Memory
1x 8GB DIMM DDR4-2400

Storage
256GB SSD M.2 2280 PCIe + 1TB HDD 7200rpm 3.5"

Optane Memory
None

Optical
DVD±RW

Ethernet
Integrated 100/1000M

Media Reader
7-in-1

WLAN + Bluetooth
11ac, 1x1 + BT4.0

Color
Chassis: Black bezel: silver

Keyboard
USB Calliope Keyboard, Black, German

Mouse
USB Calliope Mouse, Black

System Fan
One Rear

Power Supply
210W 85% Energy Star

Operating System
Windows 10 Home 64, German

Bundled Software
None

Base Warranty
2-year, Depot

Bundled Service
None

EAN / UPC
191376066520

End of Support
N/A

Announce Date
2019-05-12

Recommended Services

Best
3Y Onsite upgrade from 2Y Depot/CCI (5WS0K82801)

Better
3Y Dept/CCI upgrade from 2Y Depot CCI (5WS0K82802)

Good
2Y Onsite upgrade from 2Y Depot/CCI (5WS0K82805)

ideacentre 510-15IKL Platform Specifications

Processor	Intel® Celeron® Processor, Intel Pentium® Processor or 7th Generation Intel Core™ i3 / i5 / i7 Processors ||||||

Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	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	
Core i3-7100	2 / 4	3.9 GHz	3 MB		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		

Memory	16GB max offering, UDIMM, DDR4-2400, two 288-pin DIMM sockets * System automatically clocks down for the processors with lower memory controller
Storage	*Some:* Hard Drive / SATA 6.0Gb/s, 3.5", 7200 rpm *Some:* M.2 SSD / SATA 6.0Gb/s *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 Burner (DVD±RW), slim, 9.0mm high
Onboard SATA	Three onboard SATA 6.0Gb/s connectors
Media reader	Optional 7-in-1 media card reader

Graphics	*Some:* **Intel HD Graphics 510 / 610 / 630** in processor,
	  Max resolution: 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: **NVIDIA GeForce GTX 1050 Ti, 4GB GDDR5, DirectX 12,**
	  one DVI, one HDMI, one DP;
	  Max resolution: 4096x2160 (HDMI)@60Hz; 7680x4320 (DP)@60Hz;
	  2560x1600 (DVI)@60Hz
	Some: **AMD Radeon™ RX 460**, **4GB GDDR5**, DirectX 12, one HDMI,
	  one DP, one DVI;
	  Max resolution: 4096x2160 (HDMI)@60Hz; 7680x4320 (DP)@60Hz;
	  2560x1600 (DVI)@60Hz
	Some: **AMD Radeon RX 550**, **2GB GDDR5**, DirectX 12,
	  one HDMI, one VGA, one DP;
	  Max resolution: 4096x2160 (HDMI)@60Hz; 5120x2880 (DP)@60Hz;
	  2048x1536 (VGA)@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
	Some: **AMD Radeon R7 350**, **2GB GDDR5**, DirectX 11,
	  one VGA, one HDMI;
	  Max resolution: 1920x1080 (HDMI)@60Hz; 2048x1536 (VGA)@85Hz;

Chipset	**Intel B250 platform**
Front ports*	one headphone / microphone combo jack (3.5mm), one microphone (3.5mm), optional media reader, four USB 3.1 Gen1
Rear ports*	power connector, one VGA-out, one HDMI-out, one ethernet (RJ-45), two USB 2.0, two USB 3.1 Gen1
Rear audio ports	one headphone / microphone combo jack (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 / Dolby Atoms® Audio
WLAN *(opt)*	*Some:* 11ac Wi-Fi + Bluetooth 4.0 combo adapter, M.2 card, 1x1 *Some:* 11ac Wi-Fi + Bluetooth 4.0 combo adapter, M.2 card, 2x2
Bluetooth™ *(opt)*	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	Gigabit ethernet Realtek® RTL8111GN (for IKL) or Intel I219-V (for ICB)
Modem	None
Security chip	None
Security features	Power-on password, administrator password, hard-disk password, Kensington® lock
Keyboard (opt)	Lenovo Calliope Keyboard (USB connector), black or silver Lenovo Wireless Keyboard (2.4GHz via USB receiver), black or silver
Mouse	Lenovo Calliope Mouse (USB connector), black or silver Lenovo Wireless Mouse (2.4GHz via USB receiver), black or silver
Mechanical	● Tower (15L), chassis black, bezel silver color, metal case ● *(WxDxH) with bezel:* 5.71" x 11.22" x 14.41"; 145mm x 285.2mm x 366.03mm ● Approx 12.8 lb (5.8 kg), weight may vary by configuration ● Optional front / 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 *Some:* 210 watts, autosensing, 85% PSU
Limited warranty	**1-year** or **2-year, depot repair service** / service upgrades available
Preload	**Preloaded operating system** Windows® 10 Home 64 or Windows 10 Pro 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; ErP Lot 3; GREENGUARD®; RoHS-compliant
Accessories	For compatible accessories, please go to **http://smartfind.lenovo.com**

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Note: The specifications above may not be available in all regions.

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