ideacentre 510-15IKL 90G800HYGF

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
Integrated Intel HD Graphics 630

Chipset
Intel B250

Memory
1x 8GB DIMM DDR4-2400

Storage
1TB HDD 7200rpm 3.5"

Optane Memory
None

Optical
DVD±RW

Ethernet
Integrated 100/1000M

Media Reader
7-in-1

WLAN + Bluetooth
None

Color
Chassis: Black bezel: silver

Keyboard
None

Mouse
None

System Fan
Default

Power Supply
180W 85% Energy Star

Operating System
None

Bundled Software
None

Base Warranty
2-year, Depot

Bundled Service
None

EAN / UPC
192158596990

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)

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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**

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

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