ideacentre 510 Intel 90HU009TIX

Product
ideacentre 510-15ICB

Region
WE

Country
Italy

Machine Type
90HU

Processor
Core i5-8400 (6C, 2.8 / 4.0GHz, 9MB)

Graphics
AMD Radeon RX 560 4GB GDDR5

Chipset
Intel B360

Memory
8GBx2 DDR4-2666

Storage
128GB SSD M.2 (2242) PCIe NVMe + 2TB 7200rpm 3.5"

Optical
DVD±RW

Media Reader
7-in-1

WLAN + Bluetooth
None

Keyboard / Mouse
USB Black / USB Black

System Fan
One Front + One Rear

Power Supply
210W Energy Star

Operating System
Windows 10 Home 64

Warranty
2-year, Depot

Ann Date (mm/yy)
10/18

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ideacentre 510 Intel Platform Specifications

Processor

IKL: 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 G3930	2 / 2	2.9 GHz	2 MB	DDR4-2133	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		

ICB: Intel Celeron Processor, Intel Pentium Gold Processor or 8th Generation Intel Core i3 / i5 / i7 Processors

Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics
Celeron G4900	2 / 2	3.1 GHz	2 MB	DDR4-2400	Intel UHD Graphics 610
Pentium Gold G5400	2 / 4	3.7 GHz	4 MB		
Core i3-8100	4 / 4	3.6 GHz	6 MB		Intel UHD Graphics 630
Core i5-8400	6 / 6	2.8 GHz / 4.0 GHz	9 MB	DDR4-2666	
Core i7-8700	6 / 12	3.2 GHz / 4.6 GHz	12 MB		

Memory

IKL: 16GB max offering, UDIMM, DDR4-2400, two 288-pin DIMM sockets
ICB: 16GB max offering, UDIMM, DDR4-2666, 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 610 / 630** or **Intel UHD Graphics 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: ***IKL:* Intel B250 platform *ICB:* Intel B360 platform**

Front ports*
All: one headphone / microphone combo jack (3.5mm), one microphone (3.5mm), optional media reader
ICB: two USB 3.1 Gen1, two USB 3.1 Gen2, one USB 3.1 Type-C Gen1
IKL: four USB 3.1 Gen1

Rear ports*
All: power connector, one VGA-out, one HDMI-out, one ethernet (RJ-45)
ICB: four USB 2.0
IKL: two USB 2.0, two USB 3.1 Gen1

Rear audio ports
ICB: one headphone / microphone combo jack (3.5mm)
IKL: 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
IKL: Realtek ALC662 / Dolby Atoms® Audio
ICB: Realtek ALC233 / 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), black / 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
ICB: ENERGY STAR® 6.1 (support version 7.0 after November); ErP Lot 3; RoHS-compliant
IKL: ENERGY STAR 6.1; ErP Lot 3; GREENGURAD®; 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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