ideacentre 510-15ICB 90HU002HSP

Product
ideacentre 510-15ICB

Region
WE

Country/Region
Spain

Machine Type
90HU

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

Graphics
NVIDIA GeForce GTX 1050 Ti 4GB GDDR5

Chipset
Intel B360

Memory
1x 8GB DIMM DDR4-2666

Storage
1TB HDD 7200rpm 3.5"

Optane Memory
None

Optical
9.0mm DVD±RW

Media Reader
7-in-1

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

Keyboard
USB Calliope Keyboard, Black, Spanish

Mouse
USB Calliope Mouse, Black

System Fan
One Front + One Rear

Power Supply
210W 85% Energy Star

Operating System
None

Color
Silver

Base Warranty
2-year, Depot

Bundled Service
None

EAN / UPC
N/A

End of Support
192651245425

Announce Date
2019-07-09

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ideacentre 510-15ICB Platform Specifications

Processor

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
Celeron G4930	2 / 2	3.2 GHz	2 MB		
Pentium Gold G5400	2 / 4	3.7 GHz	4 MB		
Pentium Gold G5420	2 / 4	3.8 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		
Core i3-9100	4 / 4	3.6 GHz / 4.2 GHz	6 MB	DDR4-2400	
Core i5-9400F	6 / 6	2.9 GHz / 4.1 GHz	9 MB	DDR4-2666	-
Core i5-9400	6 / 6	2.9 GHz / 4.1 GHz	9 MB	DDR4-2666	Intel UHD Graphics 630
Core i7-9700	8 / 8	3.0 GHz / 4.7 GHz	12 MB	DDR4-2666	

Memory

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 H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4
* 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s

Optane Memory: Optional: 16GB Intel Optane Memory, PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, M.2
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: **NVIDIA GeForce GTX 1650, 4GB GDDR5,** DirectX 12,
one HDMI, two DP;
Max resolution: 4096x2160 (HDMI)@60Hz; 7680x4320 (DP)@60Hz;

Some: **AMD Radeon RX 550X**, **4GB GDDR5**, DirectX 12,
one HDMI, one VGA, one DP;
Max resolution: 4096x2160 (HDMI)@60Hz; 3840x2160 (DP)@60Hz;
2048x1536 (VGA)@85Hz

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 B360 platform**

Front ports*: one headphone / microphone combo jack (3.5mm), one microphone (3.5mm), optional media reader, two USB 3.1 Gen1, two USB 3.1 Gen2, one USB 3.1 Type-C Gen1
Rear ports*: power connector, one VGA-out, one HDMI-out, one ethernet (RJ-45), four USB 2.0
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 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 connection
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: ENERGY STAR® 7.0; ErP Lot 3; 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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