ThinkCentre E93z Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 4th Generation Intel Core™ i3 / i5 / i7 Processors

Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics
Celeron G1820	2 / 2	2.7 GHz	2 MB	DDR3-1333	Intel HD
Pentium G3220	2 / 2	3 GHz	3 MB	DDR3-1333	Intel HD
Pentium G3420	2 / 2	3.2 GHz	3 MB	DDR3-1600	Intel HD
Core i3-4130	2 / 4	3.4 GHz	3 MB	DDR3-1600	HD 4400
Core i3-4150	2 / 4	3.5 GHz	3 MB	DDR3-1600	HD 4400
Core i5-4430S	4 / 4	2.7 GHz / 3.2 GHz	6 MB	DDR3-1600	HD 4600
Core i5-4440S	4 / 4	2.8 GHz / 3.3 GHz	6 MB	DDR3-1600	HD 4600
Core i5-4460S	4 / 4	2.9 GHz / 3.4 GHz	6 MB	DDR3-1600	HD 4600
Core i5-4570S	4 / 4	2.9 GHz / 3.6 GHz	6 MB	DDR3-1600	HD 4600
Core i5-4670S	4 / 4	3.1 GHz / 3.8 GHz	6 MB	DDR3-1600	HD 4600
Core i7-4770S	4 / 8	3.1 GHz / 3.9 GHz	8 MB	DDR3-1600	HD 4600

Memory

16GB max, **PC3-12800 1600MHz DDR3***, two 204-pin SODIMM sockets (notebook)
*System automatically clocks down for processors with1333MHz memory controller

Disk

Some: SATA 3.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 500GB (5400 rpm, 2.5" wide) or 1TB (5400 rpm, 2.5" wide) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: DVD, SATA 1.5Gb/s, 12.7mm high
Some: DVD burner, SATA 1.5Gb/s, 12.7mm high

Media reader

Optional 11-in-1 media card reader

Graphics

Intel HD Graphics 4400/4600 in processor, uses main memory, DirectX® 11.1, external monitor support via HDMI, supports dual independent display;
Max resolution: 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz
Some: **NVIDIA GeForce® GT 720A**, PCI Express® x16, **1GB** memory, DirectX® 11, external monitor support via HDMI, supports dual independent display;
Max resolution: 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz

Display

21.5" (546.1mm) **Full HD 1080p (1920x1080) TFT color**, wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector

Light sensor

None

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off

Controls

Monitor mode / computer mode button, volume up/down buttons, and power button

Chipset

Intel B85 Chipset

Rear ports

Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in

Side ports

Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader

PCIe Mini Card

Two PCI Express® Mini Card slots

Audio support

High Definition (HD) Audio, Realtek ALC283CG / two stereo speakers (3W x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified

WLAN[13]

Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Some: 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi/BT 4.0, 2x2
Some: 11ac/a/b/g/n, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2

Bluetooth™

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

Ethernet

One gigabit ethernet port, Intel I217-V, Wake on LAN®

Manageability

None

Security chip

None

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on and Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim New F5 USB Keyboard (USB connector), black

Mouse

Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color
- Support VESA mount (100mm)

Dimensions (WxDxH) and Weight (Maximum)	
Non-touch models	21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm; 14.55 lb (6.6 kg) in maximum configuration
Touch models	21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm; 16.31 lb (7.4 kg) in maximum configuration
Optional Stand	
With Frame Stand	Adjustable between 10° and 65° (Tilt)
With Monitor Stand	Adjustable between -5° and 45° (Tilt)
With UltraFlex Stand	Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°

Power supply

Some: 150 watts, autosensing, 85% PSU
Some: 180 watts, autosensing, 92% PSU

Limited warranty[3]

Some: **1-year** or **3-years**, **limited onsite service** / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Lenovo Solutions for Small Business
- Nitro Pro

Some: Windows 8 64-bit
Some: Windows 8.1 64-bit
Some: Windows 8 Pro 64-bit
Some: Windows 8.1 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility (for WIndows 8 only)
- Lenovo Cloud Storage by SugarSync (for WIndows 8 only)
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Lenovo Solutions for Small Business
- Nitro Pro
- AccuWeather
- Norton™ Studio
- Pokki (for WIndows 8.1 only)
- Hightail (for WIndows 8.1 only)

Environment

ENERGY STAR® 6.0-compliant; EuP 2013; GREENGUARD®; RoHS-compliant

Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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Model	10B90031++
Product	E93z AIO
Region	WE
Machine Type	10B9
TopSeller	No
Processor	i3-4160
Memory	4GBx1
Display	21.5" FHD
Multi-Touch	None
Camera	2.0M
Storage	500GB 5400 rpm SSHD
Optical	DVD±RW
Graphics	NVIDIA GT 720A
WLAN	Intel N7260 b/g/n
Media reader	Media
Stand Type	UltraFlex
Keyboard / Mouse	USB
Power adapter	180W
Global(G)	None
Preload	Win8.1 64
Warranty	3-year, onsite
Ann Date (mm/yy)	11/14

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