

# ThinkStation P330 SFF Gen 2 [30D10013US](#)

**Product**

ThinkStation P330 SFF Gen 2

**Region**

NA

**Country**

USA

**Machine Type**

30D1

**TopSeller**

TopSeller

**Processor**

Core i7-9700 8C/8T/3.0GHz/12MB/65W/DDR4-2666

**Memory**

1x 16GB UDIMM DDR4-2666 Non-ECC

**Processor Graphics**

Intel UHD Graphics 630

**Discrete Graphics Card**

None

**Monitor Cable**

None

**Storage Controller**

Onboard Intel RST SATA RAID

**M.2 SSD RAID Controller**

Onboard Intel RST PCIe RAID

**Internal Disk**

None

**Optane Memory**

None

**M.2 SSD Drive**

1x 256GB SSD M.2 PCIe NVMe Opal

**Optical**

None

**Media Reader**

SD Reader

**HD Audio**

Onboard Realtek ALC233

**WLAN + Bluetooth**

None

**Available Networking Port**

1x GbE RJ-45

**Chassis Intrusion Switch**

Chassis Intrusion Switch





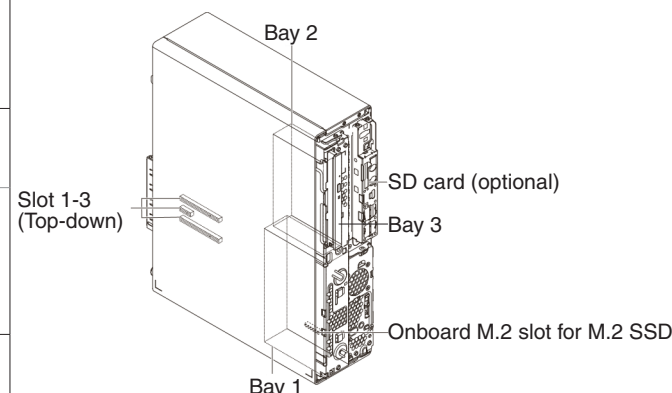
# ThinkStation P330 SFF Gen 2 (30D1 and 30D2) Platform Specifications

Product Specifications Reference (PSREF)

| Components         | Specification                                                                |                                                                                                                                           |                                                                    |                 |              |                      |         |
|--------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|--------------|----------------------|---------|
| Form factor        | 8.4L mini-tower                                                              |                                                                                                                                           |                                                                    |                 |              |                      |         |
| Dimensions         | Height: 343.5 mm (13.5 in). Width: 92.5 mm (3.6 in). Depth: 305.6 mm (12 in) |                                                                                                                                           |                                                                    |                 |              |                      |         |
| Weight             | Maximum configuration: 13.23 lb (6.0kg)                                      |                                                                                                                                           |                                                                    |                 |              |                      |         |
| Processor          | Supports one of the following processor:                                     |                                                                                                                                           |                                                                    |                 |              |                      |         |
|                    | • Xeon E-2278G 8C/16T/3.4GHz/16MB/80W/DDR4-2666 (260W PSU needed)            |                                                                                                                                           |                                                                    |                 |              |                      |         |
|                    | • Xeon E-2276G 6C/12T/3.8GHz/12MB/80W/DDR4-2666                              |                                                                                                                                           |                                                                    |                 |              |                      |         |
|                    | • Xeon E-2274G 4C/8T/4.0GHz/8MB/83W/DDR4-2666                                |                                                                                                                                           |                                                                    |                 |              |                      |         |
|                    | • Xeon E-2246G 6C/12T/3.6GHz/12MB/80W/DDR4-2666                              |                                                                                                                                           |                                                                    |                 |              |                      |         |
|                    | • Xeon E-2244G 4C/8T/3.8GHz/8MB/71W/DDR4-2666                                |                                                                                                                                           |                                                                    |                 |              |                      |         |
|                    | • Xeon E-2236 6C/12T/3.4GHz/12MB/80W/DDR4-2666                               |                                                                                                                                           |                                                                    |                 |              |                      |         |
|                    | • Xeon E-2234 4C/8T/3.6GHz/8MB/71W/DDR4-2666                                 |                                                                                                                                           |                                                                    |                 |              |                      |         |
|                    | • Xeon E-2226G 6C/6T/3.4GHz/12MB/80W/DDR4-2666                               |                                                                                                                                           |                                                                    |                 |              |                      |         |
|                    | • Xeon E-2224G 4C/4T/3.5GHz/8MB/71W/DDR4-2666                                |                                                                                                                                           |                                                                    |                 |              |                      |         |
|                    | • Xeon E-2224 4C/4T/3.4GHz/8MB/71W/DDR4-2666                                 |                                                                                                                                           |                                                                    |                 |              |                      |         |
|                    | • Xeon E-2174G 4C/8T/3.8GHz/8MB/71W/DDR4-2666                                |                                                                                                                                           |                                                                    |                 |              |                      |         |
|                    | • Core i9-9900 8C/16T/3.1GHz/16MB/65W/DDR4-2666                              |                                                                                                                                           |                                                                    |                 |              |                      |         |
|                    | • Core i7-9700 8C/8T/3.0GHz/12MB/65W/DDR4-2666                               |                                                                                                                                           |                                                                    |                 |              |                      |         |
|                    | • Core i7-8700 6C/12T/3.2GHz/12MB/65W/DDR4-2666                              |                                                                                                                                           |                                                                    |                 |              |                      |         |
| Chipset            | Intel C246 Chipset                                                           |                                                                                                                                           |                                                                    |                 |              |                      |         |
|                    | Memory Sockets                                                               | 4 DIMM sockets with 2 channels                                                                                                            |                                                                    |                 |              |                      |         |
|                    | Memory Types                                                                 | 8GB/16GB DDR4-2666 UDIMM ECC or 4GB/8GB/16GB DDR4-2666 UDIMM non-ECC                                                                      |                                                                    |                 |              |                      |         |
|                    | Memory Capacity                                                              | 64B with 4 x 16GB, both UDIMM ECC or UDIMM non-ECC                                                                                        |                                                                    |                 |              |                      |         |
|                    | Memory Protection                                                            | ECC on models with UDIMM ECC memeory                                                                                                      |                                                                    |                 |              |                      |         |
|                    | Expansion slots                                                              | Three PCIe 3.0 slots as following:                                                                                                        |                                                                    |                 |              |                      |         |
|                    |                                                                              | Slot 1                                                                                                                                    | PCIe 3.0 x16, low profile, links to CPU                            |                 |              |                      |         |
|                    |                                                                              | Slot 2                                                                                                                                    | PCIe 3.0 x1, low profile, links to PCH                             |                 |              |                      |         |
|                    |                                                                              | Slot 3                                                                                                                                    | PCIe 3.0 x16 (negotiable link width x4), low profile, links to PCH |                 |              |                      |         |
|                    | Processor graphics                                                           | Integrated Intel UHD Graphics P630 in -G suffix Xeon processors, or Intel UHD Graphics 630 in Core i5 or i3 processors.                   |                                                                    |                 |              |                      |         |
|                    |                                                                              | Works along with discrete graphics to support multi-display, enables three rear display connectors (2 DP standard, 1 DP or HDMI optional) |                                                                    |                 |              |                      |         |
|                    | Discrete graphics card                                                       | Up to two PCIe 3.0 x16 slots for discrete graphics adapter (Slot 1 and 3). Supports the following graphics adapters:                      |                                                                    |                 |              |                      |         |
|                    |                                                                              | Adapter                                                                                                                                   | Cores                                                              | Memory          | Power        | Connectors           | Max qty |
|                    |                                                                              | Quadro P400                                                                                                                               | 256                                                                | 2GB GDDR5       | 30W          | 3x miniDP            | 2       |
|                    |                                                                              | Quadro P620                                                                                                                               | 512                                                                | 2GB GDDR5       | 40W          | 4x miniDP            | 2       |
| Quadro P1000       |                                                                              | 640                                                                                                                                       | 4GB GDDR5                                                          | 47W             | 4x miniDP    | 2                    |         |
| Storage Controller |                                                                              | Storage Controller                                                                                                                        |                                                                    | Type            | Interface    | Disk Type            | RAID    |
|                    | Onboard Intel RST SATA RAID                                                  |                                                                                                                                           | Std                                                                | SATA 6Gb/s      | HDD or SSD   | 0/1                  |         |
|                    | Onboard Intel RST PCIe RAID                                                  |                                                                                                                                           | Std                                                                | PCIe NVMe       | M.2 PCIe SSD | 0/1                  |         |
| Storage Support    | Disk Type                                                                    | Interface                                                                                                                                 | RPM                                                                | Offering        |              | Max Qty              |         |
|                    | 3.5" SATA HDD                                                                | SATA 6Gb/s                                                                                                                                | 7.2K                                                               | 1TB/2TB/4TB     |              | 1                    |         |
|                    | 2.5" SATA HDD                                                                | SATA 6Gb/s                                                                                                                                | 7.2K                                                               | 500GB FIPS      |              | 2                    |         |
|                    | 2.5" SATA SSD                                                                | SATA 6Gb/s                                                                                                                                |                                                                    | 256GB/512GB/1TB |              | 2                    |         |
|                    | Optane Memory                                                                | PCIe NVMe                                                                                                                                 |                                                                    | 32GB            |              | 1, used with HDD/SSD |         |
|                    | M.2 PCIe SSD                                                                 | PCIe NVMe                                                                                                                                 |                                                                    | 256GB/512GB/1TB |              | 3                    |         |
| Storage bay        | Up to 3 bays with two disk bays and one slim optical bay:                    |                                                                                                                                           |                                                                    |                 |              |                      |         |
|                    | Bay 1                                                                        | Primary 3.5" SATA bay                                                                                                                     |                                                                    |                 |              |                      |         |
|                    | Bay 2                                                                        | 2.5" SATA bay (Optional)                                                                                                                  |                                                                    |                 |              |                      |         |
|                    | Bay 3                                                                        | 9mm Slim ODD bay                                                                                                                          |                                                                    |                 |              |                      |         |
|                    | M.2                                                                          | 3x M.2 SSD (1 onboard, 2 via PCIe to M.2 adapter)                                                                                         |                                                                    |                 |              |                      |         |

| Components                       | Specification                                                                                                                                                                                                                                                                      |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| M.2 slot for Wi-Fi and Bluetooth | One dedicated onboard M.2 slot for optional Intel Wireless-AC 9560, 2x2, 2.4GHz/5GHz (160MHz channels), 802.11ac, Bluetooth 5, up to 1.73Gbps                                                                                                                                      |
| Media reader                     | Optional SD card reader on most models                                                                                                                                                                                                                                             |
| Network interfaces               | One onboard GbE port via integrated gigabit ethernet Intel i219LM, supports Wake-on-LAN. Optional PCIe ethernet adapters are available                                                                                                                                             |
| Security features                | Power-on and admin password. Trusted Platform Module, TCG 2.0 compliant. Optional chassis intrusion switch, cable lock, Kensington lock, and pad lock                                                                                                                              |
| Intel vPro                       | Supports Intel vPro on Xeon models.<br>vPro also requires Wireless-AC 9560 if Wi-Fi is needed                                                                                                                                                                                      |
| Intel AMT                        | Intel Active Management Technology 12 on Xeon models, Intel Standard Manageability on other models                                                                                                                                                                                 |
| Base warranty                    | US models comes with 3-year limited onsite service with 9x5/NBD.<br>1 or 3-year limited onsite service with 9x5/NBD in EMEA or other GEOs                                                                                                                                          |
| HD Audio                         | Intel HD Audio interface with Realtek ALC233 Codec                                                                                                                                                                                                                                 |
| Front ports                      | 2x USB 3.1 Gen 1 Type A. 2x USB 3.1 Gen 2 Type A. 1x USB 3.1 Gen 1 Type-C. 1x Mic-in. 1x Combo jack                                                                                                                                                                                |
| Rear ports                       | 2x USB 3.1 Gen 1 Type A. 2x USB 2.0 Type-A. 1x RJ-45. 1x COM. 2x DP. 1x Audio line-out<br><i>Notes: DP needs Core, Pentium, or -G suffix Xeon processor</i>                                                                                                                        |
| Optional rear ports              | Supports the following via cable:<br>1x COM. 1x Parallel. 2x PS/2. 1x DP or 1x HDMI. 2x USB 2.0<br>Supports the following via PCIe adapter:<br>4x COM. 2x USB 3.1 Type-C. 2x USB 3.0. 1x Thunderbolt.<br><i>Notes: DP or HDMI needs Core, Pentium, or -G suffix Xeon processor</i> |
| Temperature                      | Operating: 41 °F to 104 °F (10 °C to 35 °C)<br>Non operating (no package): 14 °F to 140 °F (-10 °C to 60 °C)<br>Non operating (with package): -40 °F to 140 °F (-40 °C to 60 °C)                                                                                                   |
| Altitude                         | Operating: -15.2 m (-50 ft) to 3048 m (10 000 ft).<br>Storage: -15.2 m (-50 ft) to 10, 668 m (35 000 ft)                                                                                                                                                                           |
| Humidity                         | Operating: 30%-90%, non-condensing<br>Storage (with package): 20%-90%, non-condensing                                                                                                                                                                                              |
| Environmental certification      | RoHS-compliant. GREENGUARD. EPEAT Silver rating and ENERGY STAR 7 qualified                                                                                                                                                                                                        |
| Power supply                     | Supports one 210W or 260W power supply.<br>210W is 100V - 240V, 85% PSU, Climate Savers Computing Bronze and 80 PLUS Bronze qualified.<br>260W is 100V - 240V, 92% PSU, Climate Savers Computing Platinum and 80 PLUS Platinum qualified                                           |
| ISV certifications               | Please visit <a href="http://www.thinkworkstations.com/isv-certifications/">www.thinkworkstations.com/isv-certifications/</a>                                                                                                                                                      |

Note:  
1. Depending on many factors, actual data transfer speed mentioned on this page may be lower than theoretical speed.  
2. Any questions or advice on ThinkStation PSREF, please contact [ThinkStation PSREF developer](#)



Lenovo

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