ThinkCentre M90n-1 Nano Platform Specifications

**Processor**

<table>
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<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency Base/Max(GHz)</th>
<th>Cache</th>
<th>Memory Support (Up to)</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core i3-8145U</td>
<td>2 / 4</td>
<td>2.1G / 3.9G</td>
<td>4 MB</td>
<td>DDR4-2400</td>
<td>UHD 620</td>
</tr>
<tr>
<td>Core i5-8265U</td>
<td>4 / 8</td>
<td>1.6G / 3.9G</td>
<td>6 MB</td>
<td>DDR4-2400</td>
<td>UHD 620</td>
</tr>
<tr>
<td>Core i7-8865U</td>
<td>4 / 8</td>
<td>1.6G / 4.1G</td>
<td>8 MB</td>
<td>DDR4-2400</td>
<td>UHD 620</td>
</tr>
</tbody>
</table>

**Memory**

8GB or 16GB / DDR4-2666* / soldered to systemboard, no sockets, non-ECC

* System automatically clocks down for the processors with lower memory controllers

**Storage**

Support up to two M.2 SSD

Some: M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4*

Some: M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2**

Some: Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4 (not support Celleron)

* M.2 SSD / Optane with SSD in PCIe 3.0 x 2 M.2 slot can only run at PCIe x2

** RAID

RAID 0/1 support (RAID preset only available via special bid model)

None

**Graphics**

Intel UHD Graphics 620 in processor, uses main memory, DirectX® 12, one DisplayPort™, one USB 3.1 Type-C Gen2 with display function, up to 2 independent displays;

Max resolution: 4096x2304 (DP)@60Hz; 4096x2304 (Type-C)@60Hz;

Optional DP to VGA dongle, DP to HDMI dongle, Type-C to VGA dongle, Type-C to HDMI dongle, Type-C to DP dongle

**Monitor cable**

2x USB 3.1 Gen2, 1x USB 3.1 Type-C Gen 2, one headphone / microphone combo jack (3.5mm)

**Chipset**

Intel SoC (System on Chip) platform

Realtek ALC233VB / internal speaker (1watt)

**WLAN**

Some: 11ac wireless, M.2 Card, Realtek RTL8822CE (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 1x1

Some: 11ac wireless, M.2 Card, Realtek RTL8822CE (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 2x2

Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9462 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 1x1

Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 2x2

Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 2x2

**Bluetooth**

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville) or Intel Ethernet Connection I219-V (Jacksonville), Wake on LAN®

**Security chip**

Secure Boot

**Security features**

Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

**Security chip**

Discrete TPM 2.0, TCG Certified

**Security slot** (in rear for optional Kensington® MicroSaver® cable)

**Chassis intrusion switch**

**Power-on password**

**Administrator password**

**Hard disk password**

**Boot sequence control**

**Individual USB port disablement**

**Smart USB protection, allows keyboard/ mouse only, blocks all storage devices

**Keyboard**

Some: Lenovo Calliope Keyboard (USB connector), black

Some: Lenovo Traditional Keyboard (USB connector), black

Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Some: Lenovo Calliope Mouse (USB connector), black

Some: Lenovo Calliope Mouse Wireless (2.4GHz via USB receiver), black

Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black

Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

**Mouse**

Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

**Environmental**

ENERGY STAR® 8.0, EPEAT™ Silver rating (North America), ErP Lot 3, TCO 8.0, TUV ultra low noise verified (on some models), RoHS, WEEE, REACH

**MIL-SPEC test**

MIL-STD-810H (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity and Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)

**Accessories**

For compatible accessories, please go to http://smartfind.lenovo.com