## ThinkCentre M90n-1 Nano IoT Platform Specifications

| Processor             | Intel® Celeron® or 8th  | ssor                               |                            | Manageability     | None  |  |  |   |              |            |  |                                      |
|-----------------------|---|------------------------------------|----------------------------|-------------------|---|--|--|---|--------------|------------|--|--------------------------------------|
|                       | Processor   | Cores /<br>Threads                 | Frequency<br>Base/Max(GHz) | Cache             | Memory Support<br>(Up to)   | Integrated<br>Graphics                       | Security chip<br>Security features   | Discrete TPM 2.0, TCG Certified  Security slot (in rear for optional  Boot sequence control   |              |            |  |                                      |
|                       | Celeron 4205U   | 2/2                                | 1.8G                       | 2 MB              | DDR4-2133   | UHD 610                                      |  | Kensington  | ı® MicroSave | er® cable) | Boot without keyboard and mouse     Individual LISB part disablement |                                      |
|                       | Core i3-8145U   | 2/4                                | 2.1G / 3.9G                | 4 MB              | DDR4-2400   | UHD 620                                      |  | <ul> <li>Chassis intrusion switch</li> <li>Power-on password</li> <li>Individual USB port disablement</li> </ul>  |              |            |  |                                      |
| Memory                | 4GB / DDR4-2666* / * System automatically of  | ets, non-ECC<br>ver memory control | ler                        |                   | <ul><li>Administrat</li><li>Hard disk p</li></ul>   | Administrator password<br>Hard disk password |  |   |              |            |  |                                      |
| Storage               | Support up to two M. Some: M.2 2280 SS Some: M.2 2242 SS Some: Intel Optane <sup>T</sup> PCIe NVMe C* M.2 SSD / Optane with   | run at PCIe 3.0 x2                 |                            | Keyboard<br>Mouse | 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 Fingerprint Mouse (USB connector), Windows Hello support, black Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black |  |  |   |              |            |  |                                      |
| RAID<br>Optical       | RAID 0/1 support (R/None  |                                    | ® 10 one                   | Mechanical        | Nano (fanless 0.55L), black color; metal case<br>Four M.2 slots: two for M.2 SSD (one PCle 3.0 x4 and one PCle 3.0 x2), one for   |  |  |   |              |            |  |                                      |
| Graphics              | Intel UHD Graphics 610/620 in processor, uses main memory, DirectX <sup>®</sup> 12, one DisplayPort <sup>™</sup> , one USB 3.1 Type-C Gen2 with display function, up to 2 independent displays;   |                                    |                            |                   |   |  |  | WLAN, and one for WWAN  Dimensions (WxDxH) Weight (Approx.)   |              |            |  |                                      |
| Monitor cable         | Max resolution: 4096.<br>Optional DP to VGA   | dongle, DF                         | to HDMİ dongle             |                   |   | , Type-C to                                  |  | M90n-1 Nar<br>(fanless, 0.  |              | 7.05" X 3  | 3.46" X 1.36"<br>3mm X 34.5mm  | 1.58 lb (0.72 kg),<br>vary by config |
| Chipset               | HDMI dongle, Type-C<br>Intel SoC (System o  |                                    |                            |                   |   |  | _  | With I/O  | box          |            | 3.46" X 2.41"<br>3mm X 61.3mm  | 2.65 lb (1.2 kg),<br>vary by config  |
| , ,                   | With Core i3: 1x USB 3.1 Gen2. 1x USB 3.1 Type-C Gen 2 (with display function.  |                                    |                            |                   |   |  |  | Some: VESA mount bracket kit, supports VESA 75mm Some: VESA mount bracket kit with adaper holder, supports VESA 75mm Some: DIN rail mount bracket kit None  Some: 65 watts AC/DC adapter*, autosensing, 88% PSU Some: 65 watts AC/DC adapter (wide temperature)*, autosensing, 88% PSU (only for Machine Type 11AS) * Not for the models with I/O box |              |            |  |                                      |
| Rear ports (Std.)     |   |                                    |                            |                   |   |  | t<br>Floor Stand   |   |              |            |  |                                      |
| I/O box*              |   |                                    |                            |                   |   |  | Power supply   |   |              |            |  |                                      |
| Audio support         | * Depending on many factors, actual data transfer speed may be lower than theoretical speed<br>Realtek ALC233VB / internal speaker (1watt)  |                                    |                            |                   |   |  | Limited warranty   | Some: 1-year, limited onsite service / service upgrades available Some: 3-year, limited onsite service / service upgrades available   |              |            |  |                                      |
| 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   |                                    |                            |                   |   | Preload                                      | Preloaded operating system  Some: Windows® 10 Pro 64-bit  Some: Windows 10 Home 64-bit  Some: Windows 10 IoT Enterprise (only available via special bid model) |   |              |            |  |                                      |
|                       | <ul> <li>Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9462 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 1x1</li> <li>Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 2x2</li> <li>Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, Intel vPro technology support, 2x2</li> <li>Some: Bluetooth 5.0 wireless, integrated in Wi-Fi + BT combo adapter With Celeron: Gigabit ethernet, Realtek RTL8111K, 1x RJ-45, Wake on LAN® With Core i3: Two gigabit ethernet, Realtek RTL8111K and RTL8111HN, 2x RJ-45 Wake on LAN®</li> </ul> |                                    |                            |                   |   |  | Environment  | ENERGY STAR® 7.1*, EPEAT™ Silver rating (North America)*, ErP Lot 3, TCO 8.0*, TUV ultra low noise verified (on some models), RoHS, WEEE, REACH * Not for the models with I/O box   |              |            |  |                                      |
|                       |   |                                    |                            |                   |   |  | MIL-SPEC test  | MIL-STD-810H* (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Solar Radiation) * Not for the models with I/O box   |              |            |  |                                      |
| Bluetooth<br>Ethernet |   |                                    |                            |                   |   |  | Accessories  |   |              |            | o to <b>http://smartfir</b>  |                                      |
| Note: The execition   | ations above may not be   | ن مامامانمینم                      |                            |                   |   |  |  | ·   |              | ·          |  | Lenovo January 202                   |