



National Centre for Physics

Detailed specification Document

A-287

S#	Item	Description	Qty
1.	Lenovo Think station P7 Workstation Brand: Lenovo Model: P7 Workstation <i>or equivalent</i>	<ul style="list-style-type: none"> • Base Feature: Lenovo ThinkStation P7 workstation • Motherboard: Intel FHF Expert Rv2 W790 • Processor: Intel Xeon w7-3455 24 cores, (2.50GHz up to 4.8GHz) 67.5 MB cache (Equivalent or latest) • GPU: 1x NVIDIA® RTX PRO 5000 Blackwell 48GB GDDR7 with ECC, 300W • Memory: 4x 32GB (128GB Total) DDR5-4800 DIMM ECC Registered Memory and have support to extend up to 1TB • M2. SATA SSDs (OS): 2x 1TB NVMe M.2 SSD or equivalent. OS is installed in one of the SSD and one of the SSD is spare as storage. • Internal storage: 1x 2TB SATA HDD 3.5" or equivalent • Network: 1x 10Gb Ethernet AMT, 1x 1Gb Ethernet (Integrated) • WIFI: Intel® 6E AX210, 802.11ax 2x2 Wi-Fi + Bluetooth 5.2 Intel or equivalent • Power supply: 92% efficient, 1400W, autosensing, 80 PLUS Platinum qualified • Ports (Rear): <ul style="list-style-type: none"> • 1x USB-C 3.2 Gen 2x2 (20 Gbps) • 3x USB-A • 2x USB 2.0 • 1x Ethernet (10GbE RJ-45) • 1x Ethernet (GbE RJ-45) • 1x line-in (3.5mm) • 1x line-out (3.5mm) • Ports (Front): <ul style="list-style-type: none"> • 2x USB-A 3.2 Gen2 • 2x USB-C 3.2 Gen2 • 1x Headphone/ microphone combo • Cooling Fans: Heavy duty fans with optimal fan speed control • Operating System (Installed): Windows 11 Pro for Workstation. • Keyboard and Mouse: USB, Calliope Black Keyboard and Mouse • Other Features: TPM 2.0, UEFI Secure Boot, Self-Healing BIOS • Dimension: 6.9 x 20 x 17.1(inches) • Warranty/ Support: 3/3/3 Years, NBD Complete warranty/support 	04
2.	ThinkVision 39.7-inch Ultra-Wide Curved Monitor or equivalent Brand: ThinkVision Model: P40w-20 <i>or equivalent</i>	<ul style="list-style-type: none"> • Screen Size: 39.7" • Panel Type: In-Plane Switching • Resolution: 5120 x 2160 • Refresh Rate: 75 Hz • Response Time: 4 ms (Extreme mode) / 6 ms (Typical mode) • Contrast Ratio: 1000:1 • Colour Coverage: 99% sRGB, 98% DCI-P3 • Colour Depth: 10-bit • Backlight: WLED • Connection Type: 2 x Thunderbolt™ 4, 1 x HDMI 2.0, 1 x DP 1.4, 1 x Ethernet, 1 x USB 3.2 Gen1 (Upstream, Type-B), 4 x USB 3.2 Gen1 (Downstream), 1 x USB 3.2 Gen1 (Downstream, Type-C), 1 x Audio Out (3.5 mm) • Brightness: 300 cd/m2 (typical) • Aspect Ratio: 21:9 • Power Requirement: AC 100 - 240V (50 - 60 Hz) • Power Consumption: 60W Typical, 250W Max • Warranty: 3 Year • All necessary accessories and cables included in the box 	02

3.	Lenovo Legion R27s 27-inch IPS FHD 144Hz Monitor or equivalent Brand: Legion Model: R27s <i>or equivalent</i>	<ul style="list-style-type: none"> • Brand: Legion • Screen Size: 27 inch • Panel Type: In-Plane Switching • Resolution: 1920 x 1080 • Refresh Rate: 144Hz • Response Time: 1ms (MPRT), 4ms (Level 4), 6ms (Level 3), 8ms (Level 2), 10ms (Level 1) • Contrast Ratio: 1500:1 • Color Depth: 8-bit • Backlight: WLED • Connection Type: 1 x HDMI 2.1, 1 x DP 1.2 • AMD FreeSync: Adaptive Sync • Brightness: 250 cd/m² • Aspect Ratio: 16:9 • Power Requirement: 100 - 240 VAC, 50 - 60 Hz • Power Consumption: 12.5W Typ, 22.0W Max, 0.5W Sleep, 0.3W Power Off • Warranty: 3 Year • All necessary accessories and cables included in the box 	02
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Terms and Conditions:

1. Equipment and accessories provided by the supplier must not be refurbished.
 2. Delivered items will be physically inspected by the inspection committee.
 3. Delivered items will be checked for the physical as well as logical feature set mentioned in specifications.
 4. Serial numbers of all the items delivered to NCP must be verifiable from the respective brand's web portal or support center.
 5. Supplier will provide the standard warranty given by the manufacturer if the warranty is not explicitly requested by NCP.
 6. The supplier will provide the details of the warranty claim procedure in case of any fault with the equipment.
- Acceptance of the delivered items(s) will be subject to the fulfilment of all the above points (1-6).

Note: All the components installed should be compatible with the system and each other.

Please tick the relevant box

- Installation
 Testing
 Commissioning
 Training
 Warranty requirement
 Any other please specify