



T1A ThinkStation Lenovo P330 Refurbished Intel® Core™ i7 i7-8700T 16 GB DDR4-SDRAM 512 GB SSD NVIDIA® Quadro® P620 Windows 10 Pro Mini PC Workstation Black



Brand : T1A

Product family: ThinkStation

Product code: D-P330-MU-T001

Product name : Lenovo ThinkStation P330 Refurbished

Lenovo P330 Tiny Workstation, Intel Core i7-8700T 2.4GHZ, 512 GB NVMe, 16 GB RAM, NVIDIA Quadro P620 miniDP, WIN 10 PRO

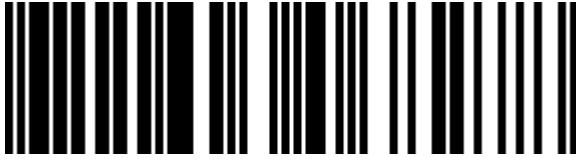
T1A ThinkStation Lenovo P330 Refurbished. Processor frequency: 2.4 GHz, Processor family: Intel® Core™ i7, Processor model: i7-8700T. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM, Memory clock speed: 2666 MHz. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics 630, Discrete graphics card model: NVIDIA® Quadro® P620.

Operating system installed: Windows 10 Pro, Operating system architecture: 64-bit. Power supply: 135 W. Chassis type: Mini PC. Product type: Workstation



Processor		Ports & interfaces	
Processor manufacturer *	Intel	Combo headphone/mic port	✓
Processor family *	Intel® Core™ i7	On/off button	✓
Processor generation	8th gen Intel® Core™ i7	Design	
Processor model *	i7-8700T	Chassis type *	Mini PC
Processor cores	6	Volume	1 L
Processor threads	12	Placement supported	Horizontal/Vertical
Processor boost frequency	4 GHz	Water cooling system	✗
Processor frequency *	2.4 GHz	Product colour *	Black
Processor socket	LGA 1151 (Socket H4)	Refurbished	✓
Processor cache	12 MB	Performance	
Processor cache type	Smart Cache	Motherboard chipset	Intel Q370
System bus rate	8 GT/s	Audio chip	Realtek ALC233
Bus type	DMI3	Audio system	High Definition Audio
Processor lithography	14 nm	Password protection	✓
Processor operating modes	64-bit	Password protection type	Power on
Processor codename	Coffee Lake	Trusted Platform Module (TPM)	✓
Thermal Design Power (TDP)	35 W	Product type *	Workstation
Configurable TDP-down	25 W	Software	
Configurable TDP-down frequency	1.9 GHz	Operating system installed *	Windows 10 Pro
Tjunction	100 °C	Operating system architecture	64-bit
PCI Express slots version	3.0	Processor special features	
Maximum number of PCI Express lanes	16	Intel 64	✓
PCI Express configurations	1x16, 1x8+2x4, 2x8	Enhanced Intel SpeedStep Technology	✓
Number of processors installed	1	Embedded options available	✓
Stepping	U0	Intel® InTru™ 3D Technology	✓
Maximum internal memory supported by processor	64 GB	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Memory types supported by processor	DDR4-SDRAM	Intel Clear Video Technology	✓
Memory clock speeds supported by processor	2666 MHz	Intel VT-x with Extended Page Tables (EPT)	✓
Memory bandwidth supported by processor (max)	41.6 GB/s	Intel TSX-NI	✓
Memory		Idle States	✓
Internal memory *	16 GB	Thermal Monitoring Technologies	✓
Internal memory type	DDR4-SDRAM	Intel Stable Image Platform Program (SIPP)	✓
Memory slots	2x SO-DIMM		

Memory		Processor special features	
Memory clock speed	2666 MHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Non-ECC	✓	Intel® Secure Key	✓
Storage		Intel® OS Guard	✓
Total storage capacity *	512 GB	Intel Trusted Execution Technology	✓
Storage media *	SSD	Execute Disable Bit	✓
Optical drive type *	✗	Intel Enhanced Halt State	✓
Number of storage drives installed	1	Intel Software Guard Extensions (Intel SGX)	✓
Total SSDs capacity	512 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Number of SSDs installed	1	Processor package size	37.5 x 37.5 mm
SSD capacity	512 GB	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
NVMe	✓	Processor code	SR3WX
Card reader integrated	✗	Scalability	1S
Graphics		CPU configuration (max)	1
Discrete graphics card *	✓	Thermal solution specification	PCG 2015A
On-board graphics card *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics card model *	NVIDIA® Quadro® P620	Intel Identity Protection Technology version	1.00
Discrete graphics card memory	2 GB	Intel Stable Image Platform Program (SIPP) version	1.00
Discrete graphics memory type	GDDR5	Intel Secure Key Technology version	1.00
Number of discrete graphics cards	1	Intel Virtualization Technology (VT-x)	✓
On-board GPU manufacturer	Intel	Intel TSX-NI version	1.00
On-board graphics card family	Intel® UHD Graphics	Processor ARK ID	129948
On-board graphics card model *	Intel® UHD Graphics 630	Intel® Turbo Boost Technology	2.0
On-board graphics card base frequency	350 MHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
On-board graphics card dynamic frequency (max)	1200 MHz	Intel® Quick Sync Video Technology	✓
Maximum on-board graphics card memory	64 GB	Intel® Identity Protection Technology (Intel® IPT)	✓
Number of displays supported (on-board graphics)	3	Conflict-Free processor	✓
On-board graphics card DirectX version	12.0	Power	
On-board graphics card OpenGL version	4.5	Power supply *	135 W
On-board graphics card ID	0x3E92	Power supply input voltage	100 - 240 V
Graphics card Mini DisplayPort ports quantity	4	Operational conditions	
Network		Operating temperature (T-T)	10 - 35 °C
Ethernet LAN *	✓	Storage temperature (T-T)	-40 - 60 °C
Ethernet LAN data rates	10,100,1000 Mbit/s	Operating relative humidity (H-H)	20 - 80%
Cabling technology	10/100/1000Base-T(X)	Storage relative humidity (H-H)	20 - 90%
Ports & interfaces		Operating altitude	-15.2 - 3048 m
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3	Non-operating altitude	-15.2 - 10668 m
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1	Certificates	
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2	Compliance certificates	RoHS
DVI port	✗	Sustainability	
HDMI ports quantity *	1	Sustainability certificates	EPEAT Gold, ENERGY STAR
DisplayPorts quantity	1	Weight & dimensions	
Ethernet LAN (RJ-45) ports	1	Width *	36.5 mm
Microphone in	✓	Depth *	182.9 mm
Headphone outputs	1	Height *	179 mm
		Weight *	1.4 kg



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