



T1A ThinkStation Lenovo P330 Refurbished Mini PC Intel® Core™ i7 i7-8700T 16 GB DDR4-SDRAM 512 GB SSD NVIDIA® Quadro® P620 Windows 10 Pro 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		
Processor model *	i7-8700T		
Processor cores	6		
Processor frequency *	2.4 GHz		
Processor boost frequency	4 GHz		
Processor socket	LGA 1151 (Socket H4)		
Processor cache	12 MB		
Processor cache type	Smart Cache		
Processor threads	12		
System bus rate	8 GT/s		
Bus type	DMI3		
Processor lithography	14 nm		
Processor operating modes	64-bit		
Processor codename	Coffee Lake		
Thermal Design Power (TDP)	35 W		
Configurable TDP-down	25 W		
Configurable TDP-down frequency	1.9 GHz		
Tjunction	100 °C		
PCI Express slots version	3.0		
Maximum number of PCI Express lanes	16		
PCI Express configurations	1x16, 1x8+2x4, 2x8		
Number of processors installed	1		
Stepping	U0		
Maximum internal memory supported by processor	64 GB		
Memory types supported by processor	DDR4-SDRAM		
Memory clock speeds supported by processor	2666 MHz		
Memory bandwidth supported by processor (max)	41.6 GB/s		
Memory		Design	
Internal memory *	16 GB	Chassis type *	Mini PC
Internal memory type	DDR4-SDRAM	Volume	1 L
Memory slots	2x SO-DIMM	Placement supported	Horizontal/Vertical
		Water cooling system	✗
		Product colour *	Black
		Refurbished	✓
		Performance	
		Motherboard chipset	Intel Q370
		Audio chip	Realtek ALC233
		Audio system	High Definition Audio
		Password protection	✓
		Password protection type	Power on
		Trusted Platform Module (TPM)	✓
		Product type *	Workstation
		Software	
		Operating system installed *	Windows 10 Pro
		Operating system architecture	64-bit
		Processor special features	
		Intel 64	✓
		Enhanced Intel SpeedStep Technology	✓
		Embedded options available	✓
		Intel® InTru™ 3D Technology	✓
		Intel® Clear Video HD Technology (Intel® CVT HD)	✓
		Intel Clear Video Technology	✓
		Intel VT-x with Extended Page Tables (EPT)	✓
		Intel TSX-NI	✓
		Idle States	✓
		Thermal Monitoring Technologies	✓
		Intel Stable Image Platform Program (SIPP)	✓

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



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