ThinkStation P620 30E0001PIX

Product
ThinkStation P620

Region
WE

Country/Region
Italy

Machine Type
30E0

TopSeller
TopSeller

Processor
AMD Ryzen Threadripper PRO 3945WX (12C / 24T, 4.0 / 4.3GHz, 6MB L2 / 64MB L3)

Discrete Graphics
None

Chipset
AMD WRX80

Memory
2x 16GB RDIMM DDR4-3200 ECC

HDD Controller
Integrated SATA controller

M.2 SSD RAID Controller
Integrated NVMe controller

Internal Disk Drive
None

M.2 SSD Drive
1x 512GB SSD M.2 PCIe 3.0 NVMe Opal

Optical
9.0mm DVD±RW

Media Reader
15-in-1 Card Reader

Onboard Ethernet
1x 10GbE RJ-45

Additional Ethernet
None

WLAN + Bluetooth
None

Optional Rear Ports
None

Chassis Intrusion Switch
Chassis Intrusion Switch

Cover Lock
Lock Kit with Unique Key

Keyboard
USB Traditional Keyboard, Black, Italian

Mouse
USB Calliope Mouse

Power Supply
1000W Platinum Fixed

Diagnostic
Front 4-Digit Diagnostic LED

System Management
AMD PRO

Operating System
Windows 10 Pro 64, WE (EN/FR/DE/NL/IT)

Bundled Software
None

Base Warranty
3-year, Onsite

Bundled Service
3Y Premier Support Upgrade from 3Y Onsite (5WS0U26649)

EAN / UPC / JAN
0195348196352

End of Support
2028-10-04

Announce Date
2020-09-04

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ThinkStation P620 Platform Specifications

Form factor	33L Tower
Dimensions	165mm/6.5" W x 460mm/18.1" D x 446mm/17.6" H (with feet)
Weight	Maximum configuration: 52.91 lb (24kg)

Processor Support

Processor	# of Cores	# of Threads	Base Frequency	Cache	TDP	Memory Types
AMD Ryzen Threadripper PRO 3995WX	64	128	2.7GHz	256MB L3	280W	DDR4-3200
AMD Ryzen Threadripper PRO 3975WX	32	64	3.5GHz	128MB L3	280W	DDR4-3200
AMD Ryzen Threadripper PRO 3955WX	16	32	3.9GHz	64MB L3	280W	DDR4-3200
AMD Ryzen Threadripper PRO 3945WX	12	24	4.0GHz	64MB L3	280W	DDR4-3200

Processor Sockets	1x Socket sWRX4
Chipset	AMD WRX80
Memory Sockets	8 DIMM sockets with 8 channels
Memory Types	DDR4-3200 RDIMM ECC, 8GB / 16GB / 32GB / 64GB available
Memory Capacity	512GB with 8 x 64GB DDR4-3200 RDIMMs
Memory Protection	ECC

Expansion slots

Slot 1 (CPU)	PCIe 4.0 x16, full height, full length
Slot 2 (CPU)	PCIe 4.0 x8, full height, full length
Slot 3 (CPU)	PCIe 4.0 x16, full height, full length
Slot 4 (CPU)	PCIe 4.0 x16, full height, full length
Slot 5 (CPU)	PCIe 4.0 x16, full height, full length
Slot 6 (IOH)	PCIe 4.0 x8, full height, full length

Discrete Graphics Offering

Graphics	Memory	Power	Connector	SLI / NVlink	Max Qty
Quadro P620	2GB GDDR5	40W	4xminiDP	-	4
Quadro P1000	4GB GDDR5	50W	4xminiDP	-	4
Quadro P2200	5GB GDDR5	75W	4xDP	-	4
Quadro RTX 4000	8GB GDDR6	160W	3xDP, 1xVirtualLink	-	4
Quadro RTX 5000	16GB GDDR6	265W	4xDP, 1xVirtualLink	NVLink	2
Quadro RTX 6000	24GB GDDR6	295W	4xDP, 1xVirtualLink	NVLink	2
Quadro RTX 8000	48GB GDDR6	295W	4xDP, 1xVirtualLink	NVLink	2
Quadro GV100	32GB HBM2	250W	4xDP	NVLink	2

Storage Controller

Storage Controller	Type	Interface	RAID	Cache
Integrated SATA controller	Std	SATA 6Gb/s	0/1/10/5	-
Integrated NVMe controller	Std	PCIe NVMe	0/1/10/5	-

Storage Type

Disk Type	Interface	RPM	Offering
3.5" SATA HDD	SATA 6Gb/s	7.2K	1TB/2TB/4TB
M.2 PCIe SSD	PCIe 3.0 NVMe	-	256GB/512GB/1TB/2TB
M.2 PCIe SSD	PCIe 4.0 NVMe*	-	256GB/512GB/1TB

** M.2 PCIe 4.0 SSD is available later this year*

Storage Support

Up to 5x 3.5" SATA HDD:
- 4x 3.5" HDD bay
- 1x Flex Bay (Front Access Storage Enclosure or 5.25” Slim ODD and HDD cage)

Up to 11x M.2 SSD:
- 2 via onboard M.2
- 8 via two quad M.2 to PCIe adapter (only supports PCIe 3.0 SSD)
- 1 via Single M.2 to PCIe adapter (only supports PCIe 3.0 SSD)

Power supply	One fixed 1000W, autosensing, 92%, 80 PLUS Platinum qualified
Optical	Optional one slim optical, DVD or DVD±RW
Media reader	Optional UHS-II 15-in-1 USB 3.2 Gen 1 reader on flex module
Network interfaces	Integrated one 10GbE ethernet (Marvell AQtion AQN-107). Optional PCIe ethernet or wireless adapters are available
WLAN + Bluetooth	Optional Intel Wireless-AC 9260, 2x2, 2.4GHz/5GHz, 802.11ac, Bluetooth 5.1
Security features	Power-on and admin password. Trusted Platform Module, TCG 2.0 compliant. Chassis intrusion switch. Optional access panel lock, Kensington lock
System Mgmt	AMD Pro Manageability
Diagnostic	Front panel warning LED. Front 4-digit diagnostic. ThinkStation Diagnostics for Windows. Photo-audio transfer with Lenovo PC Diagnostics for Android and iOS.
Base warranty	Most models comes with 3-year limited onsite service with 9x5/NBD
HD Audio	Realtek ALC4050H codec
Front ports	2x USB-A 3.2 Gen 2 (includes one 11W charging), 2x USB-C 3.2 Gen 2 (15W), 1x combo audio / microphone jack (3.5mm)
Rear ports	2x USB-A 2.0, 4x USB-A 3.2 Gen 2, 1x 10GbE RJ-45, 3x analog audio ports (line-in, line-out, mic-in), 2x PS/2
Optional ports	Optional one COM port

Environmental specification

Temperature - operating	50 °F to 95 °F (10 °C to 35 °C)
Temperature - storage (no package)	14 °F to 140 °F (-10 °C to 60 °C)
Temperature - storage (with package)	-40 °F to 140 °F (-40 °C to 60 °C)
Altitude - operating	(Unpressurized): -50ft-10000ft (-15.2m-3048m)
Humidity - operating	10%~80%, non-condensing
Humidity - storage (with package)	10%~90%, non-condensing

Environmental Certifications	RoHS-compliant. GREENGUARD. EPEAT Silver rating. ENERGY STAR 8.0 qualified
ISV certifications	Please visit www.thinkworkstations.com/isv-certifications/

Note: Depending on many factors, actual data transfer speed mentioned on this page may be lower than theoretical speed.

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