








OVERALL DESKTOP COST COMPARISON

	CONFIGURATION 1	CONFIGURATION 2	CONFIGURATION 3	CONFIGURATION 4	CONFIGURATION 5	CONFIGURATION 6	CONFIGURATION 7	CONFIGURATION 8	CONFIGURATION 9	CONFIGURATION 10
	BUSINESS CHROMEBOX	PERFORMANCE CHROMEBOX	BUSINESS THIN CLIENT	PERFORMANCE THIN CLIENT	BUSINESS ALL-IN-ONE	PERFORMANCE ALL-IN-ONE	BUSINESS COMPUTER	PERFORMANCE COMPUTER	BUSINESS WORKSTATION	PERFORMANCE WORKSTATION
										
DELL Sterling Computers MA-IS-2240252	No Offering No Offering	No Offering No Offering	Wyse 5070 \$488.52	No Offering No Offering	OptiPlex AIO Plus \$1,092.60	OptiPlex AIO Plus \$1,235.92	OptiPlex Plus \$1,043.76	OptiPlex Plus \$1,153.10	Precision 7920 \$2,570.40	Precision 7920 \$3,561.60
HP Golden Star Technology MA-IS-2240253	Chromebox Ent. G3 \$590.00	Chromebox Ent. G3 \$710.00	T640 Thin Client \$432.00	T740 Thin Client \$555.00	EliteOne 840 G9 AIO \$1,125.00	EliteOne 840 G9 AIO \$1,380.00	ProDesk 600 G9 \$845.00	ProDesk 600 G9 \$1,090.00	Z6 G4 \$2,290.00	Z6 G4 \$3,610.00
LENOVO Technology Integration Group MA-IS-2240254	No Offering No Offering	No Offering No Offering	Tiny M625 \$433.99	No Offering No Offering	ThinkCentre M90A Gen 3 AIO \$1,303.99	ThinkCentre M90A Gen 3 AIO \$1,684.99	ThinkCentre M80T Gen 3 \$1,064.49	ThinkCentre M80T Gen 3 \$1,259.99	ThinkStation P720 \$2,411.99	ThinkStation P720 \$3,064.50
MICROSOFT Zones LLC MA-IS-2240255	No Offering No Offering	No Offering No Offering	No Offering No Offering	No Offering No Offering	No Offering No Offering	Surface Studio 2+ \$4,577.00	No Offering No Offering	No Offering No Offering	No Offering No Offering	No Offering No Offering

Updated 04/13/2023

CONFIGURATION 1 BUSINESS CHROMEBOX COMPARISON



**HP
Chromebox Ent. G3
\$590.00**

**Dell
No Offering
No Offering**

**Lenovo
No Offering
No Offering**

**Microsoft
No Offering
No Offering**

Features	Base Specifications	Product Details	Product Details	Product Details	Product Details
Model /Chassis Type	Brick	Brick			
Processor	AMD / Intel Dual Core 1.8GHz	Intel Core i5 10310U 1.70GHz, 6M, 4 Core, 8 Thread			
BIOS Configuration	Boot to Hard Drive	Boot to Hard Drive			
Operating System	Chrome	Chrome			
RAM	4GB DDR3 non-ECC	8GB DDR4 non-ECC			
Hard Disk	32GB eMMC non-OPAL	128GB PCIe non-OPAL			
Removable Storage					
Video Graphics	HD Graphics	Intel UHD Graphics 610			
Sound	High Definition Audio	Realtek ALC5662			
Network Interface	Gigabit LAN 10/100/1000	Gigabit LAN 10/100/1000			
Wireless Interface	802.11 AX	802.11 AX			
Bluetooth Interface	5	5			
EnergyStar Level	7	7			
ePEAT Level	Bronze	Gold			
Mouse	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll			
Keyboard	Standard Keyboard	Standard Keyboard			
Warranty	5 Year Depot Service	3 Year Depot Service			
RAM Maximum		32GB non-ECC			
USB Ports - Front (2.0 / 3.0 / C)		3.1 (2) / C (1)			
USB Ports - Rear (2.0 / 3.0 / C)		2.0 (1) / 3.1 (1) / C (1)			
Maximum Support Video Resolution		3840 x 2160			
VGA Out					
HDMI Out		2			
DisplayPort Out					
Stereo line-in Connection		1			
Microphone-in Connection		1			
Speakers/line-out Connection		1			
Active/Operating (Watts)		15			
Power Save/Sleep Mode (Watts)		Not Available			
Acoustics (max. dB)		Not Available			
Dimensions (inches W x D x H)		1.57 x 5.87 x 5.87			
Weight (.lbs.)		1.31			
Chassis Lock & Cable Loop		Yes			

UPGRADE OPTIONS (to be ordered at initial purchase)

Operating System	Chrome Ent. Mgmt.	Chrome Ent. Mgmt. Perpetual Lic.			
RAM	8GB non-ECC				
RAM	16GB non-ECC	16GB non-ECC			
RAM	32GB non-ECC	32GB non-ECC			
RAM	64GB non-ECC				
Solid State Drive	64GB eMMC non-OPAL				
Solid State Drive	64GB PCIe non-OPAL				
Solid State Drive	128GB PCIe non-OPAL				
Solid State Drive	256GB PCIe non-OPAL				
Solid State Drive	512GB PCIe non-OPAL				
Graphics	AMD or nVidia w/2GB Discrete				
Graphics	AMD or nVidia w/4GB Discrete				
Graphics	AMD or nVidia w/6GB Discrete				
Graphics	AMD or nVidia w/8GB Discrete				
Security	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience			
Security	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience			
Security	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience			

ACCESSORY OPTIONS (ordered at initial purchase or at a later time)

Video Adapter - DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA			
Video Adapter - DisplayPort to HDMI	DisplayPort to HDMI	DisplayPort to HDMI			
Video Adapter - DisplayPort to Dual DisplayPort	DisplayPort to Dual Display Port				
Video Adapter - HDMI to VGA	HDMI to VGA				
Video Adapter - HDMI to DisplayPort	HDMI to DisplayPort				
Removable Storage - USB 8x DVD+-RW	USB 8xDVD+-RW				
Lock Kit	Lock Kit	Single Key Lock w/Cable			
Mounting Bracket	Mounting Bracket				
Mounting Bracket	Mounting Bracket				
Mounting Bracket	Mounting Bracket				

CONFIGURATION 2 PERFORMANCE CHROMEBOX COMPARISON



**HP
Chromebox Ent. G3
\$710.00**

**Dell
No Offering
No Offering**

**Lenovo
No Offering
No Offering**

**Microsoft
No Offering
No Offering**

Features	Base Specifications	Product Details	Product Details	Product Details	Product Details
Model /Chassis Type	Brick	Brick			
Processor	AMD / Intel Quad Core 2.4GHz	Intel Core i7 10610U 1.80GHz, 8M, 4 Core, 8 Thread			
BIOS Configuration	Boot to Hard Drive	Boot to Hard Drive			
Operating System	Chrome	Chrome			
RAM	8GB DDR3 non-ECC	8GB DDR4 non-ECC			
Hard Disk	64GB eMMC non-OPAL	128GB PCIe non-OPAL			
Removable Storage					
Video Graphics	HD Graphics	Intel UHD Graphics 610			
Sound	High Definition Audio	Realtek ALC5662			
Network Interface	Gigabit LAN 10/100/1000	Gigabit LAN 10/100/1000			
Wireless Interface	802.11 AX	802.11 AX			
Bluetooth Interface	5	5			
EnergyStar Level	7	7			
ePEAT Level	Bronze	Gold			
Mouse	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll			
Keyboard	Standard Keyboard	Standard Keyboard			
Warranty	5 Year Depot Service	3 Year Depot Service			
RAM Maximum		32GB non-ECC			
USB Ports - Front (2.0 / 3.0 / C)		3.1 (2) / C (1)			
USB Ports - Rear (2.0 / 3.0 / C)		2.0 (1) / 3.1 (1) / C (1)			
Maximum Support Video Resolution		3840 x 2160			
VGA Out					
HDMI Out		2			
DisplayPort Out					
Stereo line-in Connection		1			
Microphone-in Connection		1			
Speakers/line-out Connection		1			
Active/Operating (Watts)		15			
Power Save/Sleep Mode (Watts)		Not Available			
Acoustics (max. dB)		Not Available			
Dimensions (inches W x D x H)		1.57 x 5.87 x 5.87			
Weight (.lbs.)		1.31			
Chassis Lock & Cable Loop		Yes			

UPGRADE OPTIONS (to be ordered at initial purchase)

Operating System	Chrome Ent. Mgmt.	Chrome Ent. Mgmt. Perpetual Lic.			
RAM	16GB non-ECC	16GB non-ECC			
RAM	32GB non-ECC	32GB non-ECC			
RAM	64GB non-ECC				
Solid State Drive	64GB PCIe non-OPAL				
Solid State Drive	128GB PCIe non-OPAL				
Solid State Drive	256GB PCIe non-OPAL				
Solid State Drive	512GB PCIe non-OPAL				
Graphics	AMD or nVidia w/2GB Discrete				
Graphics	AMD or nVidia w/4GB Discrete				
Graphics	AMD or nVidia w/6GB Discrete				
Graphics	AMD or nVidia w/8GB Discrete				
Security	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience			
Security	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience			
Security	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience			

ACCESSORY OPTIONS (ordered at initial purchase or at a later time)

Video Adapter - DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA			
Video Adapter - DisplayPort to HDMI	DisplayPort to HDMI	DisplayPort to HDMI			
Video Adapter - DisplayPort to Dual DisplayPort	DisplayPort to Dual Display Port				
Video Adapter - HDMI to VGA	HDMI to VGA				
Video Adapter - HDMI to DisplayPort	HDMI to DisplayPort				
Removable Storage - USB 8x DVD+-RW	USB 8xDVD+-RW				
Lock Kit	Lock Kit	Single Key Lock w/Cable			
Mounting Bracket	Mounting Bracket				
Mounting Bracket	Mounting Bracket				
Mounting Bracket	Mounting Bracket				

CONFIGURATION 3 BUSINESS THIN CLIENT COMPARISON



**HP
T640 Thin Client
\$432.00**

**Lenovo
Tiny M625
\$433.99**

**Dell
Wyse 5070
488.52**

**Microsoft
No Offering
No Offering**

Features	Base Specifications	Product Details	Product Details	Product Details	Product Details
Model/Chassis Type	Brick	Brick	Brick	Brick	
Processor	AMD / Intel Quad Core 1.5GHz	AMD Ryzen R1505G 2.4GHz, 4M, 2 Core, 4 Thread	AMD E2-9000e 1.50GHz, 1M, 2 Core, 2 Thread	Intel Pentium Silver J5005 1.50GHz, 4M, 4 Core, 4 Thread	
BIOS Configuration	Boot to Flash	Boot to Flash	Boot to Flash	Boot to Flash	
Operating System	Thin Client OS	HP Thin Pro OS	Thin Client OS LeTOS v2	Wyse ThinOS 9.1	
RAM	8GB DDR3 non-ECC	8GB DDR4 non-ECC	8GB DDR4 non-ECC	8GB DDR4 non-ECC	
Hard Disk	32GB Flash	32GB Flash	32GB Flash	32GB Flash	
Removable Storage					
Video Graphics	HD Graphics	AMD Radeon Vega 3	AMD Radeon R2 Graphics	HD Graphics	
Sound	High Definition Audio	High Definition Audio	High Definition Audio	High Definition Audio	
Network Interface	Gigabit LAN 10/100/1000	Realtek Gigabit LAN 10/100/1000	Gigabit LAN 10/100/1000	Intel Gigabit LAN 10/100/1000	
Wireless Interface	802.11 AX	802.11 AX	802.11 AX	802.11 AC	
Bluetooth Interface	5	5.2	5	5	
VDI Protocols	PCoIP, RDP, HDX, RemoteX	PCoIP, Blast, RDP, HDX, RemoteX	PCoIP, RDP, HDX, RemoteX	PCoIP, RDP	
EnergyStar Level	7	8	8	6	
ePEAT Level	Bronze	Silver	Silver	Silver	
Mouse	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	
Keyboard	Standard Keyboard	Standard Keyboard	Standard Keyboard	Standard Keyboard	
Warranty	5 Year Depot Service	5 Year NBD Advance Exchange	5 Year Depot Service	5 Year NBD Onsite	
RAM Maximum		32GB non-ECC	8GB non-ECC	8GB non-ECC	
USB Ports - Front (2.0 / 3.0 / C)		3.1 (2) / C (1)	3.0 (2)	2.0 (2) / 3.0 (1) / C (1)	
USB Ports - Rear (2.0 / 3.0 / C)		2.0 (2) / 3.1 (2)	3.0 (4)	3.0 (4)	
Maximum Support Video Resolution		3840 x 2160	3840 x 2160	3840 x 2160	
VGA Out					
HDMI Out					
DisplayPort Out		3	2	3	
Stereo line-in Connection		1	1	1	
Microphone-in Connection		1	1	1	
Speakers/line-out Connection		1	1	1	
Active/Operating (Watts)		9.35	65	15.27	
Power Save/Sleep Mode (Watts)		1.87	5.2	1.5	
Acoustics (max. dB)		2.5	5	2.2	
Dimensions (inches W x D x H)		1.37 x 7.71 x 7.71	1.36 x 7.20 x 7.05	1.4 x 7.2 x 7.2	
Weight (lbs.)		2.2	2.9	3	
Chassis Lock & Cable Loop		Yes	Chassis Lock Only	Yes	
UPGRADE OPTIONS (to be ordered at initial purchase)					
Operating System	Windows 10 IoT	Windows 10 IoT Ent. LTSB 2021	Windows 10IoT	Windows 10 IoT	
RAM	16GB non-ECC	16GB non-ECC			
RAM	32GB non-ECC	32GB non-ECC			
RAM	64GB non-ECC				
Flash Drive	64GB	64GB	64GB SSD	64GB	
Flash Drive	128GB	128GB	128GB SSD		
Flash Drive	256GB	256GB		256GB	
Flash Drive	512GB	512GB			
Graphics	AMD or nVidia w/2GB Discrete			AMD Radeon E9173 w/2GB	
Graphics	AMD or nVidia w/4GB Discrete				
Graphics	AMD or nVidia w/6GB Discrete				
Graphics	AMD or nVidia w/8GB Discrete				
Security	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	
Security	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	
Security	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	
ACCESSORY OPTIONS (ordered at initial purchase or at a later time)					
Video Adapter - DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA	
Video Adapter - DisplayPort to HDMI	DisplayPort to HDMI	DisplayPort to HDMI	DisplayPort to HDMI	DisplayPort to HDMI	
Video Adapter - DisplayPort to Dual DisplayPort	DisplayPort to Dual Display Port				
Video Adapter - HDMI to VGA	HDMI to VGA		HDMI to VGA	HDMI to VGA	
Video Adapter - HDMI to DisplayPort	HDMI to DisplayPort				
Removable Storage - USB 8x DVD+/-RW	USB 8xDVD+/-RW	USB 8x DVD+/-RW	USB 8x DVD+/-RW	USB 8x DVD+/-RW	
Lock Kit	Lock Kit	Master Key Lock w/Cable	Microsaver 2.0 Twin Head Lock	Lock Kit	
Mounting Bracket	Mounting Bracket	Quick Release Bracket	VESA Mount Kit	Wall Mount	
Mounting Bracket	Mounting Bracket		Underdesk Mount Kit	Dual VESA Arm Mount	
Mounting Bracket	Mounting Bracket		Monitor Flex Stand		

CONFIGURATION 4 PERFORMANCE THIN CLIENT COMPARISON



**HP
T740 Thin Client
\$555.00**

**Dell
No Offering
No Offering**

**Lenovo
No Offering
No Offering**

**Microsoft
No Offering
No Offering**

Features	Base Specifications	Product Details	Product Details	Product Details	Product Details
Model / Chassis Type	Brick	Brick			
Processor	AMD / Intel Quad Core 2.0GHz	AMD Ryzen V1756B 3.25GHz, 4M, 4 Core, 8 Thread			
BIOS Configuration	Boot to Flash	Boot to Flash			
Operating System	Thin Client OS	HP Thin Pro OS			
RAM	16GB DDR3 non-ECC	16GB DDR4 non-ECC			
Hard Disk	64GB Flash	64GB Flash			
Removable Storage					
Video Graphics	HD Graphics	AMD Radeon Vega 8			
Sound	High Definition Audio	High Definition Audio			
Network Interface	Gigabit LAN 10/100/1000	Realtek Gigabit LAN 10/100/1000			
Wireless Interface	802.11 AX	802.11 AX			
Bluetooth Interface	5	5.2			
VDI Protocols	PCoIP, RDP, HDX, RemoteX	PCoIP, Blast, RDP, HDX, RemoteX			
EnergyStar Level	7	8			
ePEAT Level	Bronze	Silver			
Mouse	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll			
Keyboard	Standard Keyboard	Standard Keyboard			
Warranty	5 Year Depot Service	5 Year NBD Advance Exchange			
RAM Maximum		32GB non-ECC			
USB Ports - Front (2.0 / 3.0 / C)		3.1 (2) / C (1)			
USB Ports - Rear (2.0 / 3.0 / C)		2.0 (2) / 3.1 (2)			
Maximum Support Video Resolution		3840 x 2160			
VGA Out					
HDMI Out					
DisplayPort Out		4			
Stereo line-in Connection		1			
Microphone-in Connection		1			
Speakers/line-out Connection		1			
Active/Operating (Watts)		16.57			
Power Save/Sleep Mode (Watts)		1.47			
Acoustics (max. dB)		2.7			
Dimensions (inches W x D x H)		1.96 x 8.26 x 8.26			
Weight (lbs.)		2.92			
Chassis Lock & Cable Loop		Yes			
UPGRADE OPTIONS (to be ordered at initial purchase)					
Operating System	Windows 10 IoT	Windows 10 IoT Ent. LTSB 2021			
RAM	32GB non-ECC	32GB non-ECC			
RAM	64GB non-ECC				
Flash Drive	128GB	128GB			
Flash Drive	256GB	256GB			
Flash Drive	512GB	512GB			
Graphics	AMD or nVidia w/2GB Discrete	AMD Radeon E9173 w/2GB			
Graphics	AMD or nVidia w/4GB Discrete				
Graphics	AMD or nVidia w/6GB Discrete				
Graphics	AMD or nVidia w/8GB Discrete				
Security	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience			
Security	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience			
Security	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience			
ACCESSORY OPTIONS (ordered at initial purchase or at a later time)					
Video Adapter - DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA			
Video Adapter - DisplayPort to HDMI	DisplayPort to HDMI	DisplayPort to HDMI			
Video Adapter - DisplayPort to Dual DisplayPort	DisplayPort to Dual Display Port				
Video Adapter - HDMI to VGA	HDMI to VGA				
Video Adapter - HDMI to DisplayPort	HDMI to DisplayPort				
Removable Storage - USB 8x DVD+/-RW	USB 8xDVD+/-RW	USB 8x DVD+/-RW			
Lock Kit	Lock Kit	Single Key Lock w/Cable			
Mounting Bracket	Mounting Bracket	Quick Release Bracket			
Mounting Bracket	Mounting Bracket				
Mounting Bracket	Mounting Bracket				

CONFIGURATION 5 BUSINESS ALL-IN-ONE COMPARISON



**Dell
OptiPlex AIO Plus
\$1,092.60**

**HP
EliteOne 840 G9 AIO
\$1,125.00**

**Lenovo
ThinkCentre M90A Gen 3 AIO
\$1,303.99**

**Microsoft
No Offering
No Offering**

Features	Base Specifications	Product Details	Product Details	Product Details	Product Details
Model /Chassis Type	Integrated w/Monitor	Integrated w/Monitor	Integrated w/Monitor	Integrated w/Monitor	Integrated w/Monitor
Display Size	23 Inch FHD Touchscreen	23.8 Inch FHD Touchscreen	24 Inch FHD Touchscreen	23.8 Inch FHD Touchscreen	
Processor	Intel Core i5 12600 3.30GHz, 18M, 6 Core, 12 Thread	Intel Core i5 13600 2.70GHz, 24M, 14 Core, 20 Thread	Intel Core i5 12600 3.30GHz, 18M, 6 Core, 12 Thread	Intel Core i5 12600 3.30GHz, 18M, 6 Core, 12 Thread	
BIOS Configuration	Boot to Hard Drive	Boot to Hard Drive	Boot to Hard Drive	Boot to Hard Drive	
Operating System	Windows 11 Pro 64Bit downgradable to Windows 10 Pro 64Bit	Windows 11 Pro 64Bit downgradable to Windows 10 Pro 64Bit	Windows 11 Pro 64Bit	Windows 11 Pro 64Bit	
RAM	16GB DDR4 non-ECC	16GB DDR4 non-ECC	16GB DDR4 non-ECC	16GB DDR4 non-ECC	
Hard Disk	256GB PCIe non-OPAL	256GB PCIe non-OPAL	256GB PCIe non-OPAL	256GB PCIe non-OPAL	
Removable Storage					
Video Graphics	Intel UHD Graphics 770	Intel UHD Graphics 770	Intel UHD Graphics 770	Intel UHD Graphics 770	
Web Camera	Front IR	Front IR	Front IR	Front IR	
Sound	High Definition Audio	High Definition Audio	High Definition Audio	High Definition Audio	
Network Interface	Gigabit LAN 10/100/1000	Intel Gigabit LAN 10/100/1000	Intel Gigabit LAN 10/100/1000	Gigabit LAN 10/100/1000	
Wireless Interface	802.11 AX	802.11 AX	802.11 AX	Intel 802.11 AX	
Bluetooth Interface	5	5.2	5.2	5.2	
Security	Intel vPro	Intel vPro	Intel vPro	Intel vPro	
EnergyStar Level	7	7	8	8	
ePEAT Level	Bronze	Gold	Gold	Gold	
Mouse	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	
Keyboard	Standard Keyboard	Standard Keyboard	Standard Keyboard	Standard Keyboard	
Warranty	5 Year NBD Onsite (Keep Your Hard Drive)	5 Year NBD Onsite (Keep Your Hard Drive)	5 Year NBD Onsite (Keep Your Hard Drive)	5 Year NBD Onsite (Keep Your Hard Drive)	
RAM Maximum		64GB non-ECC	64GB non-ECC	64GB non-ECC	
USB Ports - Front (2.0 / 3.0 / C)		3.2 (1) / C (1)	3.1 (1) / C (1)	3.2 (2) / C (1)	
USB Ports - Rear (2.0 / 3.0 / C)		3.2 (4)	3.1 (2)	3.2 (4)	
Maximum Support Video Resolution		1920 x 1080	1920 x 1080	3840 x 2160	
VGA Out					
HDMI Out		1	1		
DisplayPort Out		1	1	1	
Stereo line-in Connection		1	1	1	
Microphone-in Connection		1	1	1	
Speakers/line-out Connection		1	1	1	
Active/Operating (Watts)		52	14.97	150	
Power Save/Sleep Mode (Watts)		2.7	2.4	16.5	
Acoustics (max. dB)		17	13.6	5	
Dimensions (inches W x D x H)		21.26 x 2.28 x 13.95	21.24 x 9.37 x 21.97	21.3 x 7.9 x 16.3	
Weight (.lbs.)		21.22	19.75	17.3	
Chassis Lock & Cable Loop		Yes	Chassis Lock Only	Chassis Lock Only	
UPGRADE OPTIONS (to be ordered at initial purchase)					
Chassis	27 Inch Touchscreen All-in-One		27 Inch Touchscreen All-in-One		
RAM	32GB non-ECC	32GB non-ECC	32GB non-ECC	32GB non-ECC	
RAM	64GB non-ECC	64GB non-ECC		64GB non-ECC	
Solid State Drive	512GB PCIe non-OPAL	512GB PCIe non-OPAL	512GB PCIe non-OPAL	512GB PCIe non-OPAL	
Solid State Drive	1TB PCIe non-OPAL	1TB PCIe non-OPAL	1TB PCIe non-OPAL	1TB PCIe non-OPAL	
Solid State Drive	2TB PCIe non-OPAL	2TB PCIe non-OPAL	2TB PCIe non-OPAL		
Graphics	AMD or nVidia w/2GB Discrete			nVidia GeForce MX550 w/2GB	
Graphics	AMD or nVidia w/4GB Discrete				
Graphics	AMD or nVidia w/6GB Discrete				
Graphics	AMD or nVidia w/8GB Discrete				
Security	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	
Security	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	
Security	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	
ACCESSORY OPTIONS (ordered at initial purchase or at a later time)					
Video Adapter - DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA	
Video Adapter - DisplayPort to HDMI	DisplayPort to HDMI		DisplayPort to HDMI	DisplayPort to HDMI	
Video Adapter - DisplayPort to Dual DisplayPort	DisplayPort to Dual DisplayPort				
Video Adapter - HDMI to VGA	HDMI to VGA	HDMI to VGA			
Video Adapter - HDMI to DisplayPort	HDMI to DisplayPort				
Removable Storage - USB 8x DVD+/-RW	USB 8xDVD+/-RW	USB 8x DVD+/-RW	USB 8x DVD+/-RW		
Lock Kit	Lock Kit	Lock Kit	Single Key Lock w/Cable	Microsaver 2.0 Twin Head Lock	
Mounting Bracket	Mounting Bracket			Dual Monitor Stand	
Mounting Bracket	Mounting Bracket	All-in-One Height Adjustable Stand			
Mounting Bracket	Mounting Bracket				

CONFIGURATION 6 PERFORMANCE ALL-IN-ONE COMPARISON



**Dell
OptiPlex AIO Plus**
\$1,235.92

**HP
EliteOne 840 G9 AIO**
\$1,380.00

**Lenovo
ThinkCentre M90A Gen 3 AIO**
\$1,684.99

**Microsoft
Surface Studio 2+**
\$4,577.00

Features	Base Specifications	Product Details	Product Details	Product Details	Product Details
Model /Chassis Type	Integrated w/Monitor	Integrated w/Monitor	Integrated w/Monitor	Integrated w/Monitor	Integrated w/Monitor
Display Size	23 Inch FHD Touchscreen	23.8 Inch FHD Touchscreen	24 Inch FHD Touchscreen	23.8 Inch FHD Touchscreen	28 Inch Touchscreen
Processor	Intel Core i7 12700 2.10GHz, 25M, 12 Core, 20 Thread	Intel Core i7 13700 2.10GHz, 30M, 16 Core, 24 Thread	Intel Core i7 12700 2.10GHz, 25M, 12 Core, 20 Thread	Intel Core i7 12700 2.10GHz, 25M, 12 Core, 20 Thread	Intel Core i7 11375H 3.0GHz, 12M, 4 Core, 8 Thread
BIOS Configuration	Boot to Hard Drive	Boot to Hard Drive	Boot to Hard Drive	Boot to Hard Drive	Boot to Hard Drive
Operating System	Windows 11 Pro 64Bit downgradable to Windows 10 Pro 64Bit	Windows 11 Pro 64Bit downgradable to Windows 10 Pro 64Bit	Windows 11 Pro 64Bit	Windows 11 Pro 64Bit	Windows 11 Pro 64Bit
RAM	16GB DDR4 non-ECC	16GB DDR4 non-ECC	16GB DDR4 non-ECC	16GB DDR4 non-ECC	32GB DDR4 non-ECC
Hard Disk	512GB PCIe non-OPAL	512GB PCIe non-OPAL	512GB PCIe non-OPAL	512GB PCIe non-OPAL	1 TB PCIe non-OPAL
Removable Storage					
Video Graphics	AMD / nVidia w/2GB Discrete	AMD Radeon RX 6500 w/4GB	Intel UHD Graphics 770	nVidia GeForce MX550 w/2GB	nVidia GeForce RTX 3060 w/6GB
Web Camera	Front	Front IR	Front IR	Front IR	Front IR
Sound	High Definition Audio	High Definition Audio	High Definition Audio	High Definition Audio	Dolby Atmos
Network Interface	Gigabit LAN 10/100/1000	Intel Gigabit LAN 10/100/1000	Intel Gigabit LAN 10/100/1000	Gigabit LAN 10/100/1000	
Wireless Interface	802.11 AX	802.11 AX	802.11 AX	Intel 802.11 AX	Intel 802.11 AX
Bluetooth Interface	5	5.2	5.2	5.2	5
Security	Intel vPro	Intel vPro	Intel vPro	Intel vPro	
EnergyStar Level	7	7	8	8	7
ePEAT Level	Bronze	Gold	Gold	Gold	Bronze
Mouse	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	
Keyboard	Standard Keyboard	Standard Keyboard	Standard Keyboard	Standard Keyboard	Standard USB Keyboard
Warranty	5 Year NBD Onsite (Keep Your Hard Drive)	5 Year NBD Onsite (Keep Your Hard Drive)	5 Year NBD Onsite (Keep Your Hard Drive)	5 Year NBD Onsite (Keep Your Hard Drive)	4 Year NBD Onsite Service
RAM Maximum		64GB non-ECC	64GB non-ECC	64GB non-ECC	32GB non-ECC
USB Ports - Front (2.0 / 3.0 / C)		3.2 (1) / C (1)	3.1 (1) / C (1)	3.2 (2) / C (1)	
USB Ports - Rear (2.0 / 3.0 / C)		3.2 (4)	3.1 (2)	3.2 (4)	2.0 (1) / 3.0 (3) / C (4)
Maximum Support Video Resolution		1920 x 1080	1920 x 1080	3840 x 2160	4500 x 3000
VGA Out					
HDMI Out		1	1		
DisplayPort Out		1	1	1	
Stereo line-in Connection		1	1	1	
Microphone-in Connection		1	1	1	
Speakers/line-out Connection		1	1		1
Active/Operating (Watts)		52	14.97	150	44.5
Power Save/Sleep Mode (Watts)		2.7	2.4	16.5	2.6
Acoustics (max. dB)		17	13.6	5	35
Dimensions (inches W x D x H)		21.26 x 2.28 x 13.95	21.24 x 9.37 x 21.97	21.3 x 7.9 x 16.3	25.1 x 0.50 x 17.3
Weight (.lbs.)		21.22	19.75	17.3	21
Chassis Lock & Cable Loop		Yes	Chassis Lock Only	Chassis Lock Only	
UPGRADE OPTIONS (to be ordered at initial purchase)					
Chassis	27 Inch Touchscreen All-in-One				
RAM	32GB non-ECC	32GB non-ECC	32GB non-ECC	32GB non-ECC	
RAM	64GB non-ECC	64GB non-ECC	64GB non-ECC	64GB non-ECC	
Solid State Drive	1TB PCIe non-OPAL	1TB PCIe non-OPAL	1TB PCIe non-OPAL	1TB PCIe non-OPAL	
Solid State Drive	2TB PCIe non-OPAL	2TB PCIe non-OPAL	2TB PCIe non-OPAL		
Graphics	AMD or nVidia w/4GB Discrete				
Graphics	AMD or nVidia w/6GB Discrete				
Graphics	AMD or nVidia w/8GB Discrete				
Security	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	
Security	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	
Security	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	
ACCESSORY OPTIONS (ordered at initial purchase or at a later time)					
Video Adapter - DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA	
Video Adapter - DisplayPort to HDMI	DisplayPort to HDMI		DisplayPort to HDMI	DisplayPort to HDMI	
Video Adapter - DisplayPort to Dual DisplayPort	DisplayPort to Dual DisplayPort				
Video Adapter - HDMI to VGA	HDMI to VGA		HDMI to VGA		
Video Adapter - HDMI to DisplayPort	HDMI to DisplayPort				
Removable Storage - USB 8x DVD+/-RW	USB 8x DVD+/-RW	USB 8x DVD+/-RW	USB 8x DVD+/-RW		
Lock Kit	Lock Kit	Lock Kit	Single Key Lock w/Cable	Microsaver 2.0 Twin Head Lock	
Mounting Bracket	Mounting Bracket			Dual Monitor Stand	
Mounting Bracket	Mounting Bracket	All-in-One Height Adjustable Stand			
Mounting Bracket	Mounting Bracket				

CONFIGURATION 7 BUSINESS COMPUTER COMPARISON



**HP
ProDesk 600 G9
\$845.00**

**Dell
OptiPlex Plus
\$1,043.76**

**Lenovo
ThinkCentre M80T Gen 3
\$1,064.49**

**Microsoft
No Offering**

Features	Base Specifications	Product Details	Product Details	Product Details	Product Details
Model /Chassis Type	Mini Tower	Mini Tower	Mini Tower	Mini Tower	Mini Tower
Processor	Intel Core i5 12600 3.30GHz, 18M, 6 Core, 12 Thread	Intel Core i5 12600 3.30GHz, 18M, 6 Core, 12 Thread	Intel Core i5 13600 2.70GHz, 24M, 14 Core, 20 Thread	Intel Core i5 12600 3.30GHz, 18M, 6 Core, 12 Thread	
BIOS Configuration	Boot to Hard Drive	Boot to Hard Drive	Boot to Hard Drive	Boot to Hard Drive	
Operating System	Windows 11 Pro 64Bit downgradable to Windows 10 Pro 64Bit	Windows 11 Pro 64Bit	Windows 11 Pro 64Bit downgradable to Windows 10 Pro 64Bit	Windows 11 Pro 64Bit	
RAM	16GB DDR4 non-ECC	16GB DDR4 non-ECC	16GB DDR4 non-ECC	16GB DDR4 non-ECC	
Hard Disk	256GB PCIe non-OPAL	256GB PCIe non-OPAL	256GB PCIe non-OPAL	256GB PCIe non-OPAL	
Removable Storage					
Video Graphics	Intel UHD Graphics 770	Intel UHD Graphics 770	Intel UHD Graphics 770	Intel UHD Graphics 770	
Sound	High Definition Audio	High Definition Audio	High Definition Audio	High Definition Audio	
Network Interface	Gigabit LAN 10/100/1000	Intel Gigabit LAN 10/100/1000	Intel Gigabit LAN 10/100/1000	Gigabit LAN 10/100/1000	
Wireless Interface	802.11 AX	802.11 AX	802.11 AX	Intel 802.11 AX	
Bluetooth Interface	5	5.2	5	5.2	
Security	Intel vPro	Intel vPro	Intel vPro	Intel vPro	
EnergyStar Level	7	8	7	8	
ePEAT Level	Bronze	Gold	Gold	Gold	
Mouse	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	
Keyboard	Standard Keyboard	Standard Keyboard	Standard Keyboard	Standard Keyboard	
Warranty	5 Year NBD Onsite (Keep Your Hard Drive)	5 Year NBD Onsite (Keep Your Hard Drive)	5 Year NBD Onsite (Keep Your Hard Drive)	5 Year NBD Onsite (Keep Your Hard Drive)	
RAM Maximum		128GB non-ECC	128GB non-ECC	128GB non-ECC	
USB Ports - Front (2.0 / 3.0 / C)		3.1 (4) / C (1)	2.0 (2) / 3.2 (1) / C (1)	3.2 (4) / C (1)	
USB Ports - Rear (2.0 / 3.0 / C)		2.0 (3) / 3.1 (3)	2.0 (2) / 3.2 (4)	3.2 (4)	
Maximum Support Video Resolution		3840 x 2160	1920 x 1080	3840 x 2160	
VGA Out		1			
HDMI Out		1	1		
DisplayPort Out		1	3	2	
Stereo line-in Connection		1	1	1	
Microphone-in Connection		1	1	1	
Speakers/line-out Connection		1	1	1	
Active/Operating (Watts)		10.98	57	260	
Power Save/Sleep Mode (Watts)		0.89	1.9	26	
Acoustics (max. dB)		21	17	5	
Dimensions (inches W x D x H)		6.10 x 12.13 x 13.27	6.65 x 11.84 x 14.45	5.7 x 11.7 x 13.6	
Weight (.lbs.)		13.56	13.07	10.6	
Chassis Lock & Cable Loop		Chassis Lock Only	Yes	Chassis Lock Only	
UPGRADE OPTIONS (to be ordered at initial purchase)					
Chassis	Desktop				
Chassis	Small Form Factor (SFF)	Small Form Factor (SFF)	Small Form Factor (SFF)	Small Form Factor (SFF)	
Chassis	Ultra Small Form Factor (USFF)	Ultra Small Form Factor (USFF)		Ultra Small Form Factor (USFF)	
Chassis	Micro Form Factor (MFF)		Micro Form Factor (MFF)		
RAM	32GB non-ECC	32GB non-ECC	32GB non-ECC	32GB non-ECC	
RAM	64GB non-ECC	64GB non-ECC	64GB non-ECC	64GB non-ECC	
Solid State Drive	512GB PCIe non-OPAL	512GB PCIe non-OPAL	512GB PCIe non-OPAL	512GB PCIe non-OPAL	
Solid State Drive	1TB PCIe non-OPAL	1TB PCIe non-OPAL	1TB PCIe non-OPAL	1TB PCIe non-OPAL	
Solid State Drive	2TB PCIe non-OPAL	2TB PCIe non-OPAL	2TB PCIe non-OPAL	2TB PCIe non-OPAL	
Removable Storage	8x DVD+/-RW	8x DVD+/-RW	8x DVD+/-RW	8x DVD+/-RW	
Graphics	AMD or nVidia w/2GB Discrete	nVidia Quadro T400 w/2GB	AMD Radeon RX 6300 w/2GB		
Graphics	AMD or nVidia w/4GB Discrete	nVidia Quadro T400 w/4GB	AMD Radeon RX 6500 w/4GB	AMD Radeon RX6400 w/4GB	
Graphics	AMD or nVidia w/6GB Discrete				
Graphics	AMD or nVidia w/8GB Discrete		nVidia GeForce RTX 3050 w/8GB		
Security	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	
Security	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	
Security	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	
ACCESSORY OPTIONS (ordered at initial purchase or at a later time)					
Video Adapter - DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA	
Video Adapter - DisplayPort to HDMI	DisplayPort to HDMI	DisplayPort to HDMI		DisplayPort to HDMI	
Video Adapter - DisplayPort to Dual DisplayPort	DisplayPort to Dual DisplayPort				
Video Adapter - HDMI to VGA	HDMI to VGA		HDMI to VGA		
Video Adapter - HDMI to DisplayPort	HDMI to DisplayPort				
Removable Storage - USB 8x DVD+/-RW	USB 8x DVD+/-RW	USB 8x DVD+/-RW	USB 8x DVD+/-RW	USB 8x DVD+/-RW	
Lock Kit	Lock Kit	Master Key Lock w/Cable	Lock Kit	Microsaver 2.0 Twin Head Lock	
Mounting Bracket	Mounting Bracket	Quick Release Bracket			
Mounting Bracket	Mounting Bracket		Dual VESA Mount w/Adapter Bracket		
Mounting Bracket	Mounting Bracket				

CONFIGURATION 8 PERFORMANCE COMPUTER COMPARISON



**HP
ProDesk 600 G9
\$1,090.00**

**Dell
OptiPlex Plus
\$1,153.10**

**Lenovo
ThinkCentre M80T Gen 3
\$1,259.99**

**Microsoft
No Offering
No Offering**

Features	Base Specifications	Product Details	Product Details	Product Details	Product Details
Model /Chassis Type	Mini Tower	Mini Tower	Mini Tower	Mini Tower	Mini Tower
Processor	Intel Core i7 12700 2.10GHz, 25M, 12 Core, 20 Thread	Intel Core i7 12700 2.10GHz, 25M, 12 Core, 20 Thread	Intel Core i7 13700 2.10GHz, 30M, 16 Core, 24 Thread	Intel Core i7 12700 2.10GHz, 25M, 12 Core, 20 Thread	
BIOS Configuration	Boot to Hard Drive	Boot to Hard Drive	Boot to Hard Drive	Boot to Hard Drive	
Operating System	Windows 11 Pro 64Bit downgradable to Windows 10 Pro 64Bit	Windows 11 Pro 64Bit	Windows 11 Pro 64Bit downgradable to Windows 10 Pro 64Bit	Windows 11 Pro 64Bit	
RAM	16GB DDR4 non-ECC	16GB DDR4 non-ECC	16GB DDR4 non-ECC	16GB DDR4 non-ECC	
Hard Disk	512GB PCIe non-OPAL	512GB PCIe non-OPAL	512GB PCIe non-OPAL	512GB PCIe non-OPAL	
Removable Storage					
Video Graphics	AMD / nVidia w/2GB Discrete	nVidia Quadro T400 w/2GB	AMD Radeon RX 6300 w/2GB	Intel Xe DG1 w/2GB	
Sound	High Definition Audio	High Definition Audio	High Definition Audio	High Definition Audio	
Network Interface	Gigabit LAN 10/100/1000	Intel Gigabit LAN 10/100/1000	Intel Gigabit LAN 10/100/1000	Gigabit LAN 10/100/1000	
Wireless Interface	802.11 AC	802.11 AX	802.11 AX	Intel 802.11 AX	
Bluetooth Interface	4.2	5.2	5	5.2	
Security	Intel vPro	Intel vPro	Intel vPro	Intel vPro	
EnergyStar Level	7	8	7	8	
ePEAT Level	Bronze	Gold	Gold	Gold	
Mouse	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	
Keyboard	Standard Keyboard	Standard Keyboard	Standard Keyboard	Standard Keyboard	
Warranty	5 Year NBD Onsite (Keep Your Hard Drive)	5 Year NBD Onsite (Keep Your Hard Drive)	5 Year NBD Onsite (Keep Your Hard Drive)	5 Year NBD Onsite (Keep Your Hard Drive)	
RAM Maximum		128GB non-ECC	128GB non-ECC	128GB non-ECC	
USB Ports - Front (2.0 / 3.0 / C)		3.1 (4) / C (1)	2.0 (2) / 3.2 (1) / C (1)	3.2 (4) / C (1)	
USB Ports - Rear (2.0 / 3.0 / C)		2.0 (3) / 3.1 (3)	2.0 (2) / 3.2 (4)	3.2 (4)	
Maximum Support Video Resolution		3840 x 2160	1920 x 1080	3840 x 2160	
VGA Out		1			
HDMI Out		1	1		
DisplayPort Out		1	3	2	
Stereo line-in Connection		1	1	1	
Microphone-in Connection		1	1	1	
Speakers/line-out Connection		1	1	1	
Active/Operating (Watts)		10.98	57	260	
Power Save/Sleep Mode (Watts)		0.89	1.9	26	
Acoustics (max. dB)		21	17	5	
Dimensions (inches W x D x H)		6.10 x 12.13 x 13.27	6.65 x 11.84 x 14.45	5.7 x 11.7 x 13.6	
Weight (.lbs.)		13.56	13.07	10.6	
Chassis Lock & Cable Loop		Chassis Lock Only	Yes	Chassis Lock Only	
UPGRADE OPTIONS (to be ordered at initial purchase)					
Chassis	Desktop				
Chassis	Small Form Factor (SFF)	Small Form Factor (SFF)	Small Form Factor (SFF)	Small Form Factor (SFF)	
Chassis	Ultra Small Form Factor (USFF)	Ultra Small Form Factor (USFF)		Ultra Small Form Factor (USFF)	
Chassis	Micro Form Factor (MFF)		Micro Form Factor (MFF)		
RAM	32GB non-ECC	32GB non-ECC	32GB non-ECC	32GB non-ECC	
RAM	64GB non-ECC	64GB non-ECC	64GB non-ECC	64GB non-ECC	
Solid State Drive	1TB PCIe non-OPAL	1TB PCIe non-OPAL	1TB PCIe non-OPAL	1TB PCIe non-OPAL	
Solid State Drive	2TB PCIe non-OPAL	2TB PCIe non-OPAL	2TB PCIe non-OPAL	2TB PCIe non-OPAL	
Removable Storage	8x DVD+/-RW		8x DVD+/-RW	8x DVD+/-RW	
Graphics	AMD or nVidia w/4GB Discrete	nVidia Quadro T400 w/4GB	AMD Radeon RX 6500 w/4GB	nVidia RTX 3050 w/4GB	
Graphics	AMD or nVidia w/6GB Discrete				
Graphics	AMD or nVidia w/8GB Discrete		nVidia GeForce RTX 3050 w/8GB		
Security	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	
Security	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	
Security	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	
ACCESSORY OPTIONS (ordered at initial purchase or at a later time)					
Video Adapter - DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA	
Video Adapter - DisplayPort to HDMI	DisplayPort to HDMI	DisplayPort to HDMI		DisplayPort to HDMI	
Video Adapter - DisplayPort to Dual DisplayPort	DisplayPort to Dual DisplayPort				
Video Adapter - HDMI to VGA	HDMI to VGA		HDMI to VGA		
Video Adapter - HDMI to DisplayPort	HDMI to DisplayPort				
Removable Storage - USB 8x DVD+/-RW	USB 8xDVD+/-RW	USB 8x DVD+/-RW	USB 8x DVD+/-RW	USB 8x DVD+/-RW	
Lock Kit	Lock Kit	Single Key Lock w/Cable	Lock Kit	Microsaver 2.0 Twin Head Lock	
Mounting Bracket	Mounting Bracket	Mini Chassis Stand			
Mounting Bracket	Mounting Bracket		Dual VESA Mount w/Adapter Bracket		
Mounting Bracket	Mounting Bracket				

CONFIGURATION 9 BUSINESS WORKSTATION COMPARISON



		HP Z6 G4	Lenovo ThinkStation P720	Dell Precision 7920	Microsoft No Offering
		\$2,290.00	\$2,411.99	\$2,570.40	No Offering
Features	Base Specifications	Product Details	Product Details	Product Details	Product Details
Model /Chassis Type	Tower	Tower	Tower	Tower	
Processor	Intel Xeon 4310 2.10GHz, 18M, 12 Core, 24 Thread	Intel Xeon Silver 4214R 2.40GHz, 16.5M, 12 Core, 24 Thread	Intel Xeon 4310 2.10GHz, 18M, 12 Core, 24 Thread	Intel Xeon Silver 4216 2.10GHz, 22M, 16 Core, 32 Thread	
BIOS Configuration	Boot to Hard Drive	Boot to Hard Drive	Boot to Hard Drive	Boot to Hard Drive	
Operating System	Windows 11 Pro 64Bit downgradable to Windows 10 Pro 64Bit	Windows 11 Pro 64Bit WS+	Windows 11 Pro 64Bit	Windows 11 Pro 64Bit downgradable to Windows 10 Pro 64Bit	
RAM	16GB DDR4 ECC	16GB DDR4 ECC	16GB DDR4 ECC	16GB DDR4 ECC	
Hard Disk	1TB PCIe non-OPAL	1TB PCIe non-OPAL	1TB PCIe non-OPAL	1TB PCIe non-OPAL	
Removable Storage					
Video Graphics	AMD / nVidia w/2GB Discrete	nVidia Quadro T400 w/4GB	nVidia Quadro P420 w/2GB	AMD Radeon Pro WX2100 w/2GB	
Sound	High Definition Audio	High Definition Audio	High Definition Audio	High Definition Audio	
Network Interface	Gigabit LAN 10/100/1000	Intel Gigabit LAN 10/100/1000	Gigabit LAN 10/100/1000	Intel Gigabit LAN 10/100/1000	
Wireless Interface	802.11 AX	802.11 AX	Intel 802.11 AX	802.11 AX	
Bluetooth Interface	5	5	5.2	5	
Security	Intel vPro	Intel vPro	Intel vPro	Intel vPro	
EnergyStar Level	7	8	0.00	7	
ePEAT Level	Bronze	Gold	Silver	Gold	
Mouse	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	
Keyboard	Standard Keyboard	Standard Keyboard	Standard Keyboard	Standard Keyboard	
Warranty	5 Year NBD Onsite (Keep Your Hard Drive)	5 Year NBD Onsite (Keep Your Hard Drive)	5 Year NBD Onsite (Keep Your Hard Drive)	5 Year NBD Onsite (Keep Your Hard Drive)	
RAM Maximum		384GB ECC	768GB ECC	1TB ECC	
USB Ports - Front (2.0 / 3.0 / C)		3.1 (4)	3.2 (4)	3.2 (2) / C (2)	
USB Ports - Rear (2.0 / 3.0 / C)		3.1 (6)	3.2 (6)	3.2 (6)	
Maximum Support Video Resolution		3840 x 2140	3840 x 2160	3840 x 2140	
VGA Out					
HDMI Out					
DisplayPort Out		4 mini	3 mini	3	
Stereo line-in Connection		1	1	1	
Microphone-in Connection		1	1	1	
Speakers/line-out Connection		1	1	1	
Active/Operating (Watts)		100	690	100	
Power Save/Sleep Mode (Watts)		20	55.2	17.4	
Acoustics (max. dB)		Not Available	7	30.1	
Dimensions (inches W x D x H)		6.65 x 18.3 x 17.5	6.89 x 19.1 x 17.6	8.58 x 22.29 x 17.05	
Weight (.lbs.)		30.1	56.7	45	
Chassis Lock & Cable Loop		Yes	Chassis Lock Only	Yes	
UPGRADE OPTIONS (to be ordered at initial purchase)					
Chassis	Desktop				
Chassis	Small Form Factor (SFF)				
Chassis	Ultra Small Form Factor (USFF)				
Chassis	Micro Form Factor (MFF)				
RAM	32GB ECC	32GB ECC	32GB ECC	32GB ECC	
RAM	64GB ECC	64GB ECC	64GB ECC	64GB ECC	
RAM	128GB ECC	128GB ECC	128GB ECC	128GB ECC	
RAM	256GB ECC		256GB ECC	256GB ECC	
Solid State Drive	2TB PCIe non-OPAL	2TB PCIe non-OPAL	2TB PCIe non-OPAL	2TB PCIe non-OPAL	
2nd Solid State Drive	2TB PCIe non-OPAL	2TB PCIe non-OPAL	2TB PCIe non-OPAL	2TB PCIe non-OPAL	
Removable Storage	8x DVD+/-RW		8x DVD+/-RW	8x DVD+/-RW	
Graphics	AMD or nVidia w/4GB Discrete		nVidia Quadro P1000 w/4GB	AMD Radeon Pro WX3200 w/4GB	
Graphics	AMD or nVidia w/6GB Discrete	nVidia Quadro RTX A2000 w/ 6GB	nVidia Quadro RTX A2200 w/6GB		
Graphics	AMD or nVidia w/8GB Discrete	nVidia Quadro W5500 w/8GB	nVidia Quadro RTX 4000 w/8GB	AMD Radeon Pro WX5500 w/8GB	
Security	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	
Security	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	
Security	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	
ACCESSORY OPTIONS (ordered at initial purchase or at a later time)					
Video Adapter - DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA	mini DisplayPort to VGA	DisplayPort to VGA	
Video Adapter - DisplayPort to HDMI	DisplayPort to HDMI	DisplayPort to HDMI	mini DisplayPort to HDMI		
Video Adapter - DisplayPort to Dual DisplayPort	DisplayPort to Dual DisplayPort		mini DisplayPort to DisplayPort		
Video Adapter - HDMI to VGA	HDMI to VGA			HDMI to VGA	
Video Adapter - HDMI to DisplayPort	HDMI to DisplayPort				
Removable Storage - USB 8x DVD+/-RW	USB 8x DVD+/-RW	USB 8x DVD+/-RW		USB 8x DVD+/-RW	
Lock Kit	Lock Kit	Single Key Lock w/Cable	Microsaver 2.0 Twin Head Lock	Lock Kit	
Mounting Bracket	Mounting Bracket				
Mounting Bracket	Mounting Bracket				
Mounting Bracket	Mounting Bracket				

CONFIGURATION 10 PERFORMANCE WORKSTATION COMPARISON



**Lenovo
ThinkStation P720**
\$3,064.50

**Dell
Precision 7920**
\$3,561.60

**HP
Z6 G4**
\$3,610.00

**Microsoft
No Offering**
No Offering

Features	Base Specifications	Product Details	Product Details	Product Details	Product Details
Model /Chassis Type	Tower	Tower	Tower	Tower	
Processor	Intel Xeon 4314 2.40GHz, 24M, 16 Core, 32 Thread	Intel Xeon 4314 2.40GHz, 24M, 16 Core, 32 Thread	Intel Xeon Gold 5218R 2.10GHz, 27.5M, 20 Core, 40 Thread	Intel Xeon Gold 5218 2.13GHz, 22M, 16 Core, 32 Thread	
BIOS Configuration	Boot to Hard Drive	Boot to Hard Drive	Boot to Hard Drive	Boot to Hard Drive	
Operating System	Windows 11 Pro 64Bit downgradable to Windows 10 Pro 64Bit	Windows 11 Pro 64Bit	Windows 11 Pro 64Bit downgradable to Windows 10 Pro 64Bit	Windows 11 Pro 64Bit WS+	
RAM	32GB DDR4 ECC	32GB DDR4 ECC	32GB DDR4 ECC	32GB DDR4 ECC	
Hard Disk	2TB PCIe non-OPAL	2TB PCIe non-OPAL	2TB PCIe non-OPAL	2TB PCIe non-OPAL	
Removable Storage					
Video Graphics	AMD / nVidia w/4GB Discrete	nVidia Quadro P620 w/4GB	AMD Radeon Pro WX3200 w/4GB	nVidia Quadro T400 w/4GB	
Sound	High Definition Audio	High Definition Audio	High Definition Audio	High Definition Audio	
Network Interface	Gigabit LAN 10/100/1000	Gigabit LAN 10/100/1000	Intel Gigabit LAN 10/100/1000	Intel Gigabit LAN 10/100/1000	
Wireless Interface	802.11 AX	Intel 802.11 AX	802.11 AX	802.11 AX	
Bluetooth Interface	5	5.2	5	5	
Security	Intel vPro	Intel vPro	Intel vPro	Intel vPro	
EnergyStar Level	7	8	7	8	
ePEAT Level	Bronze	Silver	Gold	Gold	
Mouse	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	USB 2-Button Optical w/Scroll	
Keyboard	Standard Keyboard	Standard Keyboard	Standard Keyboard	Standard Keyboard	
Warranty	5 Year NBD Onsite (Keep Your Hard Drive)	5 Year NBD Onsite (Keep Your Hard Drive)	5 Year NBD Onsite (Keep Your Hard Drive)	5 Year NBD Onsite (Keep Your Hard Drive)	
RAM Maximum		768GB ECC	1TB ECC	384GB ECC	
USB Ports - Front (2.0 / 3.0 / C)		3.2 (4)	3.2 (2) / C (2)	3.1 (4)	
USB Ports - Rear (2.0 / 3.0 / C)		3.2 (6)	3.2 (6)	3.1 (6)	
Maximum Support Video Resolution		3840 x 2160	3840 x 2140	3840 x 2140	
VGA Out					
HDMI Out					
DisplayPort Out		3 mini	3	4 mini	
Stereo line-in Connection		1	1	1	
Microphone-in Connection		1	1	1	
Speakers/line-out Connection		1	1	1	
Active/Operating (Watts)		690	100	100	
Power Save/Sleep Mode (Watts)		55.2	17.4	20	
Acoustics (max. dB)		7	30.1	Not Available	
Dimensions (inches W x D x H)		6.89 x 19.1 x 17.6	8.58 x 22.29 x 17.05	6.65 x 18.3 x 17.5	
Weight (.lbs.)		56.7	45	30.1	
Chassis Lock & Cable Loop		Chassis Lock Only	Yes	Yes	

UPGRADE OPTIONS (to be ordered at initial purchase)

Chassis	Desktop				
Chassis	Small Form Factor (SFF)				
Chassis	Ultra Small Form Factor (USFF)				
Chassis	Micro Form Factor (MFF)				
RAM	64GB ECC	64GB ECC	64GB ECC	64GB ECC	
RAM	128GB ECC	128GB ECC	128GB ECC	128GB ECC	
RAM	256GB ECC	256GB ECC	256GB ECC		
2nd Solid State Drive	2TB PCIe non-OPAL	2TB PCIe non-OPAL	2TB PCIe non-OPAL	2TB PCIe non-OPAL	
Removable Storage	8x DVD+/-RW	8x DVD+/-RW	8x DVD+/-RW		
Graphics	AMD or nVidia w/8GB Discrete	nVidia Quadro RTX A2200 w/6GB		nVidia Quadro RTX A2000 w/ 6GB	
Graphics	AMD or nVidia w/8GB Discrete	nVidia Quadro RTX 4000 w/8GB	AMD Radeon Pro WX5500 w/8GB	nVidia Quadro W5500 w/8GB	
Security	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	3 Yr. Absolute Resilience	
Security	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	4 Yr. Absolute Resilience	
Security	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	5 Yr. Absolute Resilience	

ACCESSORY OPTIONS (ordered at initial purchase or at a later time)

Video Adapter - DisplayPort to VGA	DisplayPort to VGA	mini DisplayPort to VGA	DisplayPort to VGA	DisplayPort to VGA	
Video Adapter - DisplayPort to HDMI	DisplayPort to HDMI	mini DisplayPort to HDMI		DisplayPort to HDMI	
Video Adapter - DisplayPort to Dual DisplayPort	DisplayPort to Dual Display Port	mini DisplayPort to DisplayPort			
Video Adapter - HDMI to VGA	HDMI to VGA		HDMI to VGA		
Video Adapter - HDMI to DisplayPort	HDMI to DisplayPort				
Removable Storage - USB 8x DVD+/-RW	USB 8x DVD+/-RW		USB 8x DVD+/-RW	USB 8x DVD+/-RW	
Lock Kit	Lock Kit	Microsaver 2.0 Twin Head Lock	Lock Kit	Master Key Lock w/Cable	
Mounting Bracket	Mounting Bracket				
Mounting Bracket	Mounting Bracket				
Mounting Bracket	Mounting Bracket				